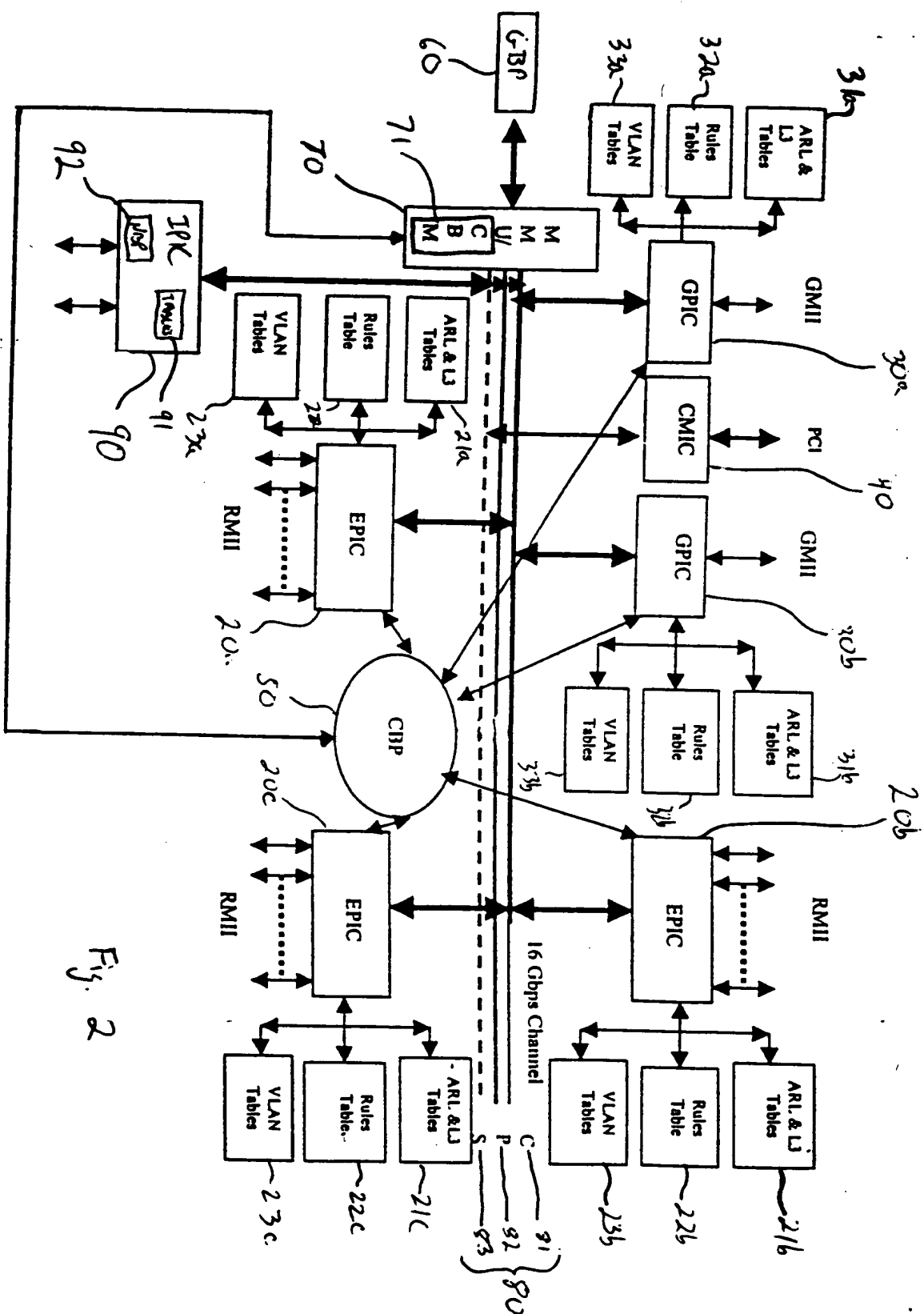


Fig. 1



0021E0 29182560

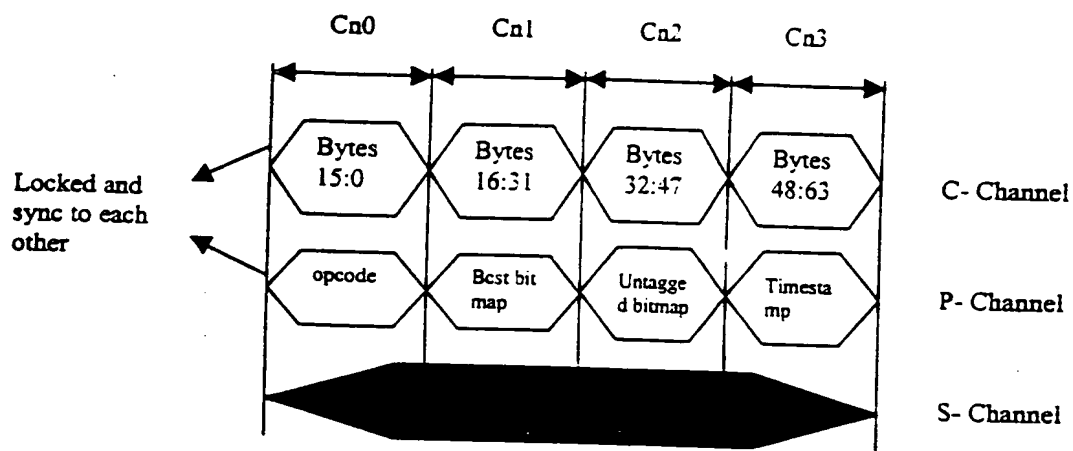


Fig. 3

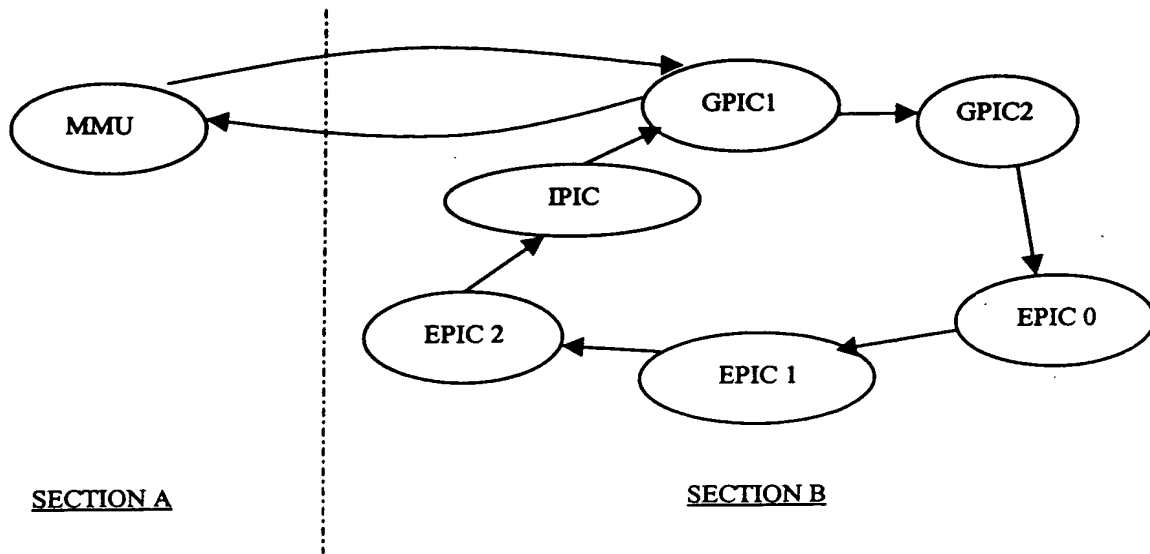


Fig. 4a

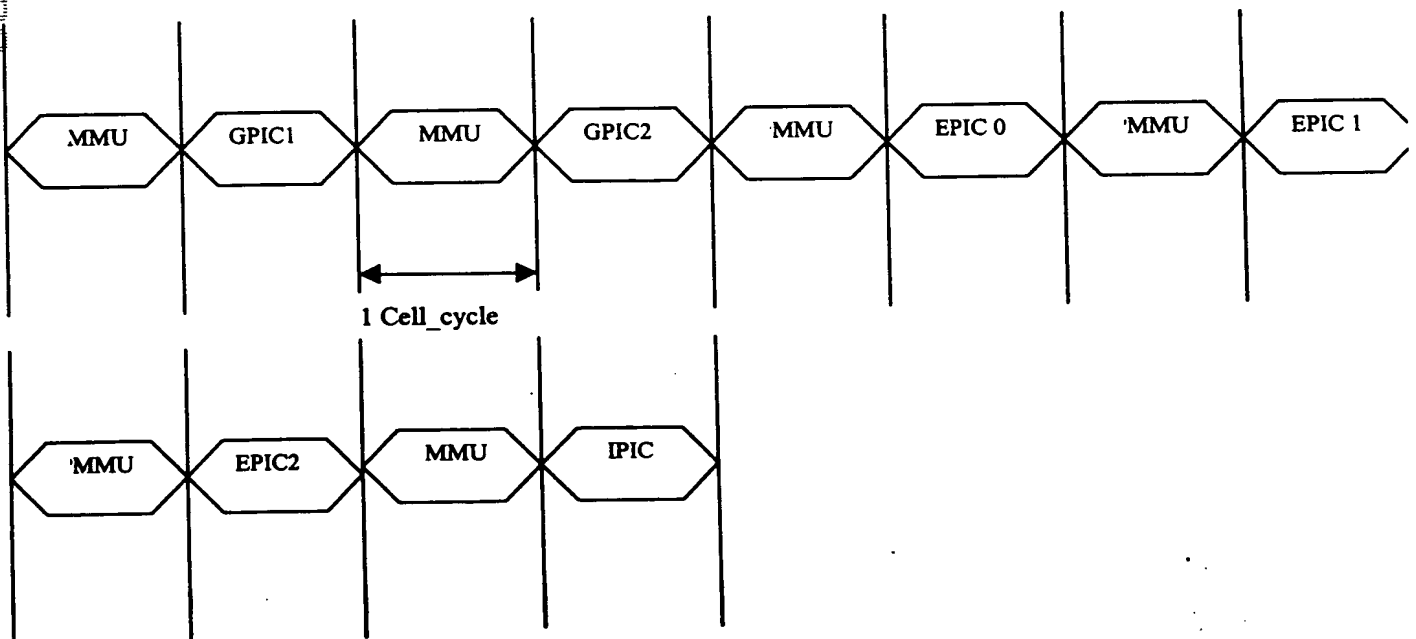


Fig. 4b

[illegible]

62	60	58	56	54	52	50	48	46	44	42	40	38	36	34	32
R	L3 Port Bitmap														

Fig. 5

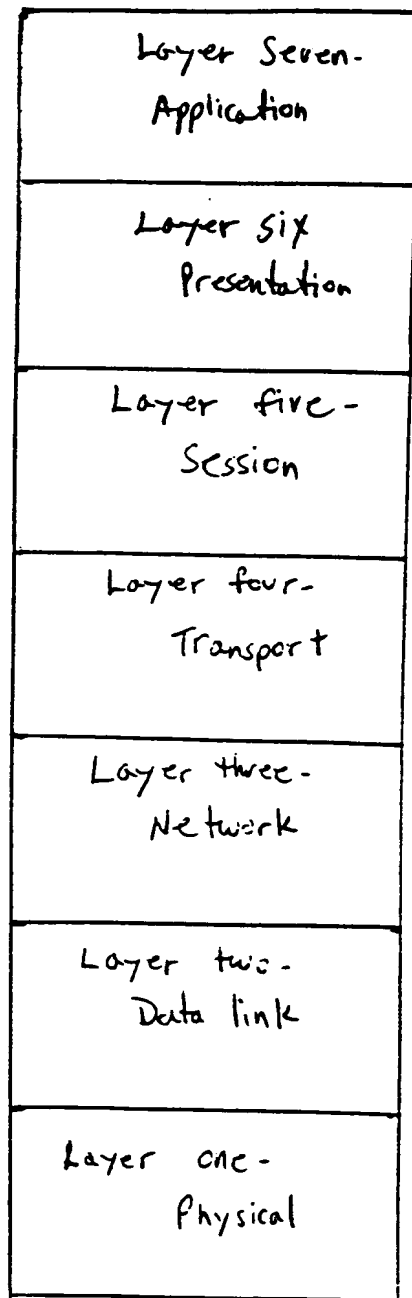


Figure 7
Prior Art

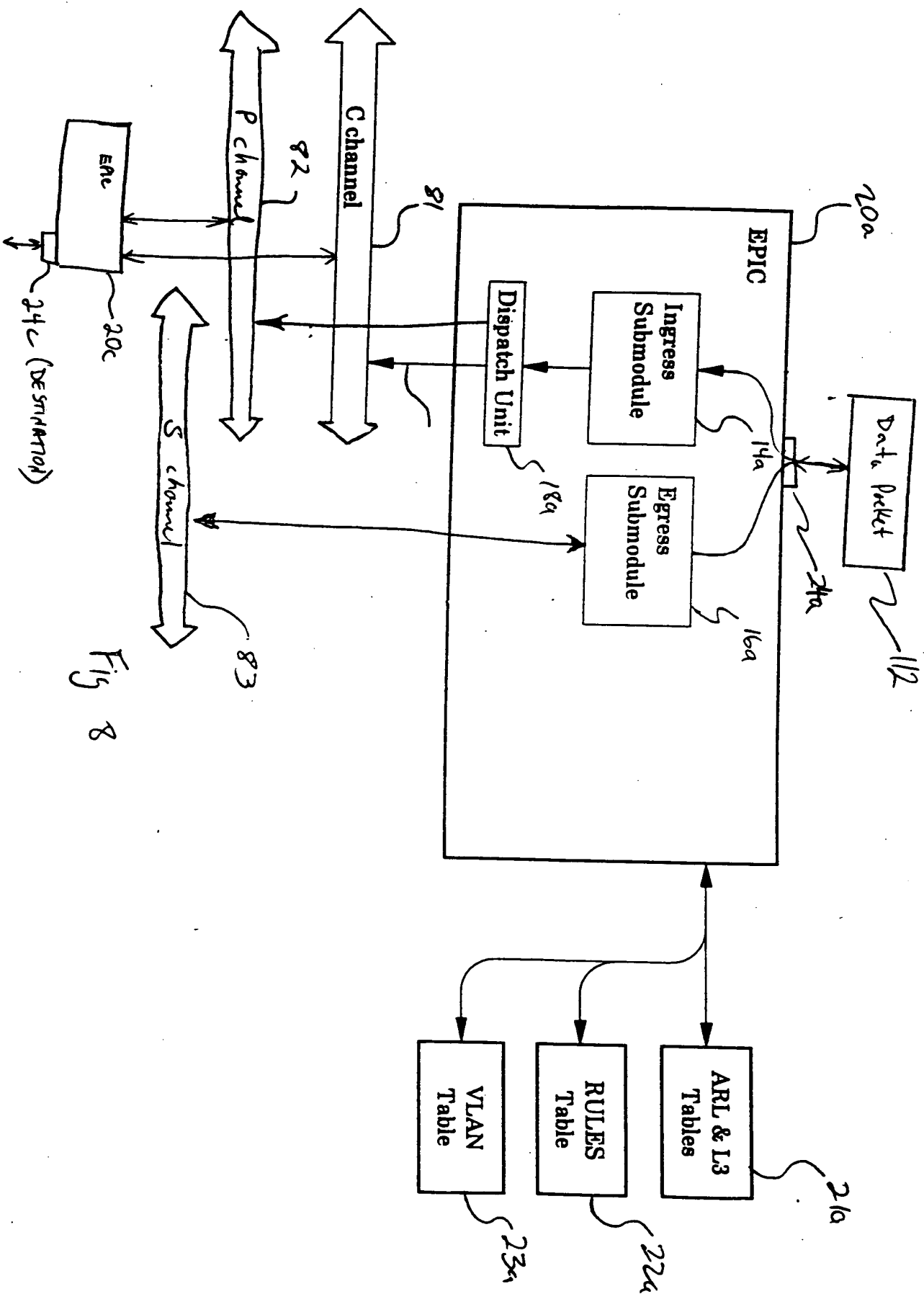


Fig 8

09528157.73.73.73

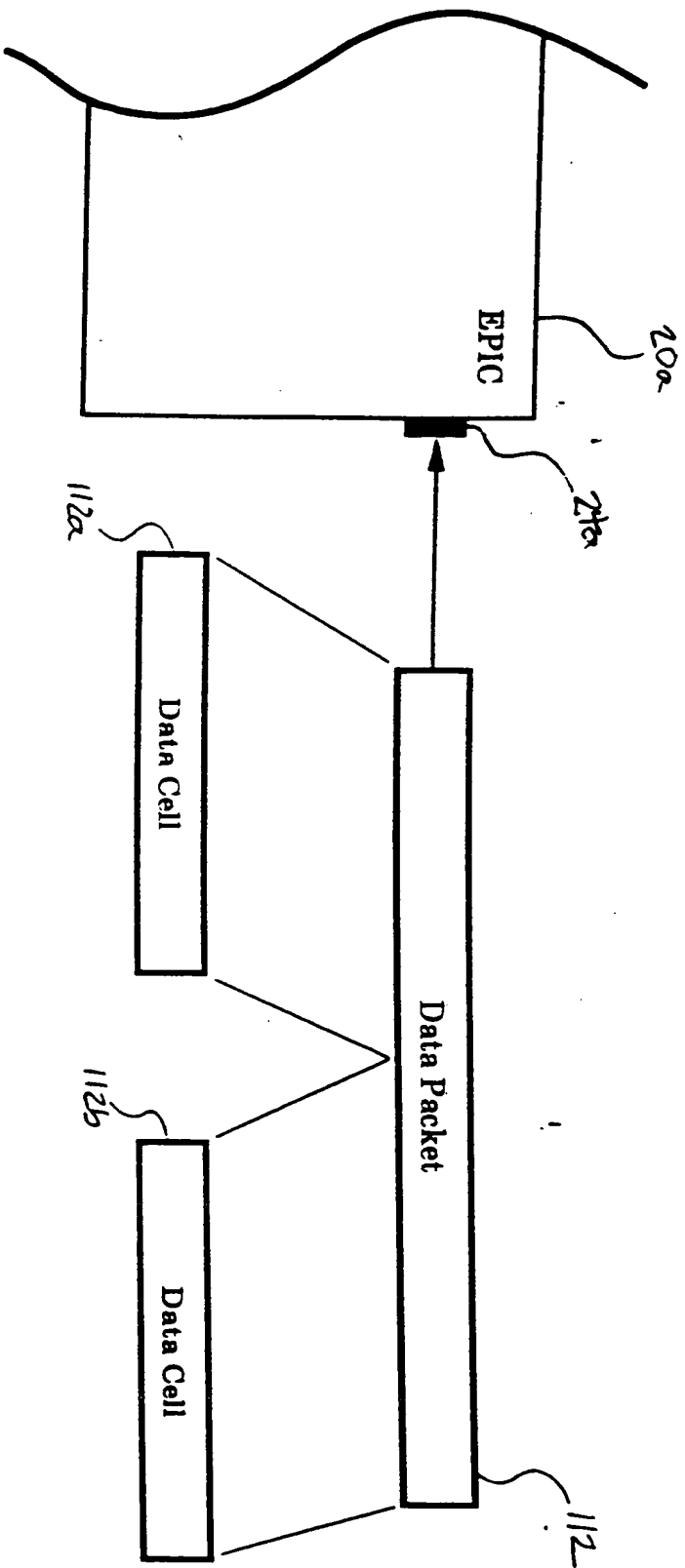


Fig. 9

0953167-0317-0000

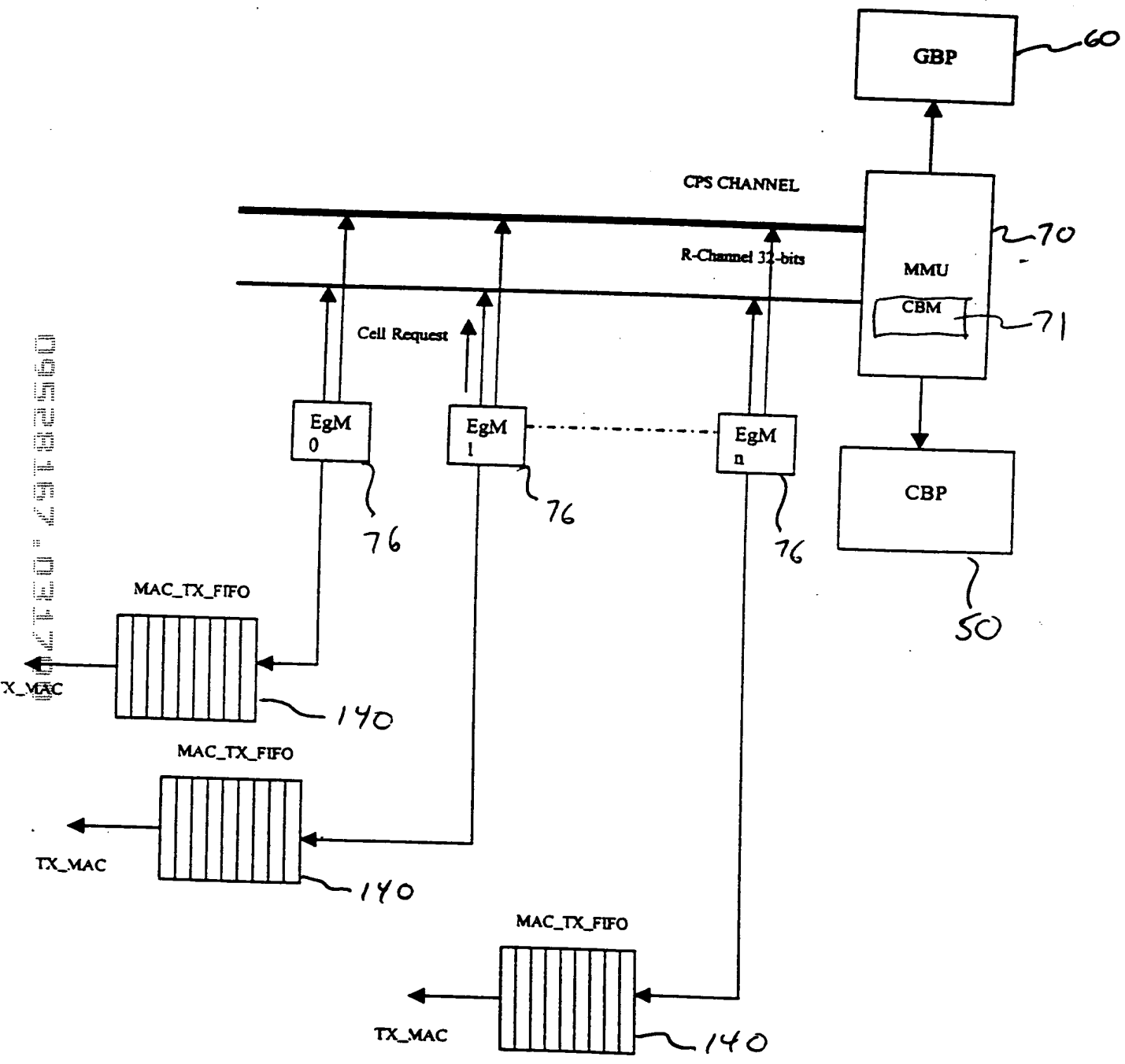


Fig. 10

Line 0 →	FC LC BC/MC Cpy_cnt(5b) Cell_length (7b) CRC (2b) NC_header (16b) Src Count(6b) IPX IP Time_Stamp (14b) O bits(2b) P NextCellLen(2b) CpuOpcode(4b) Cell_data (0-9B)
Line 1 →	Cell_data (10-27) Bytes
Line 2 →	Cell_data (28-45) Bytes
Line 3 →	Cell_data (46-63) Bytes

Fig. 11

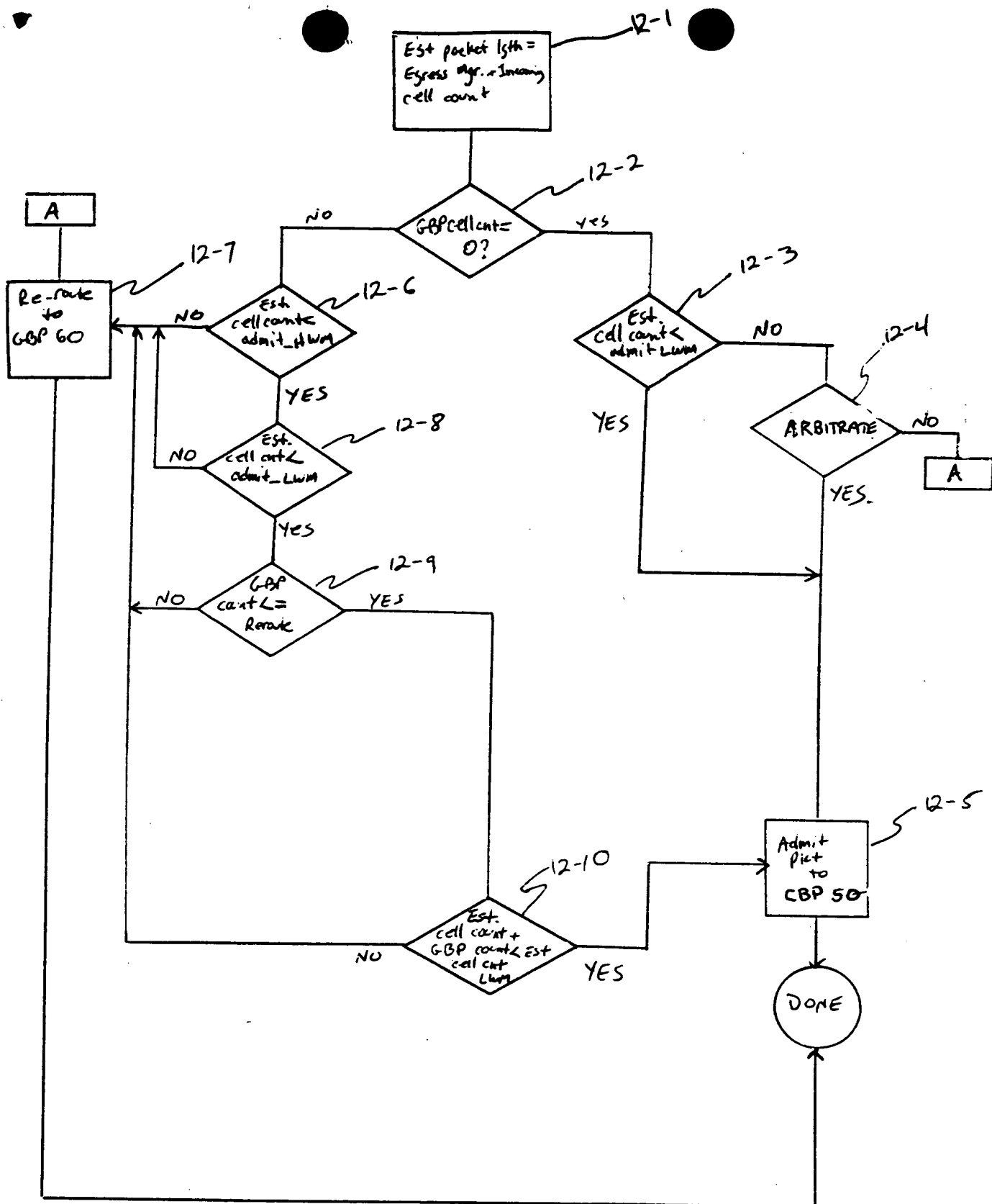


Fig. 12

-77

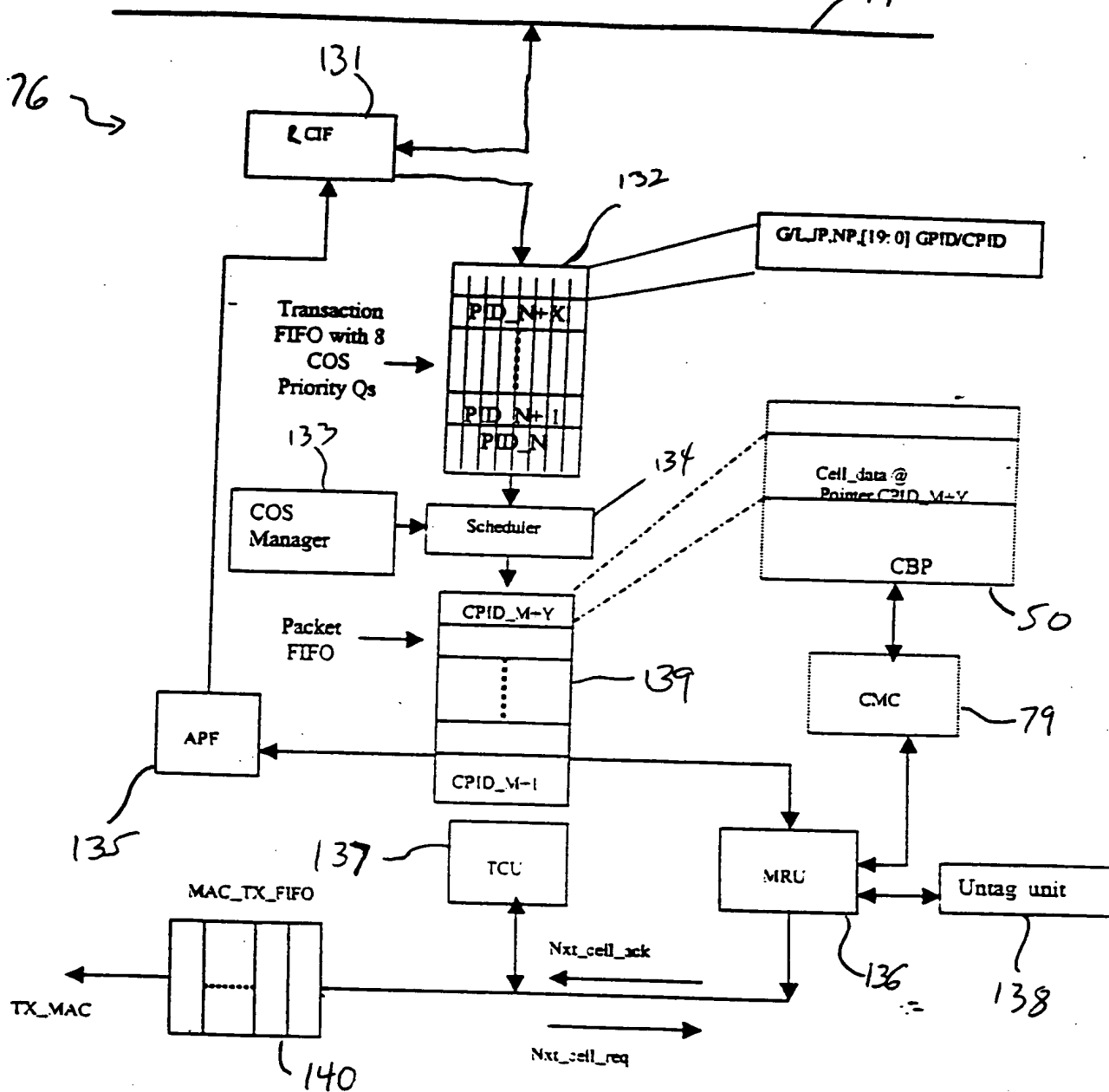


Fig 13

Data Flow

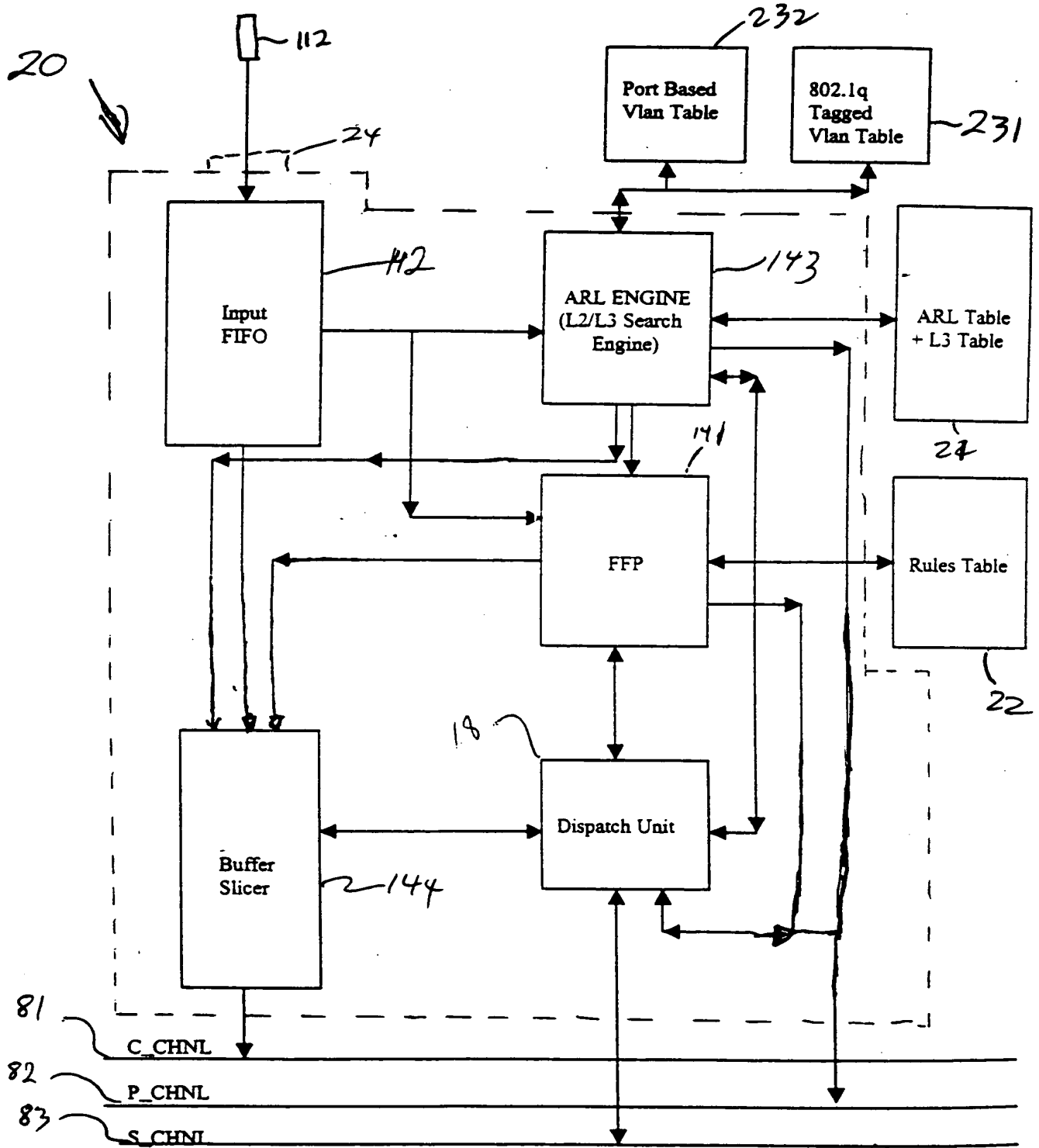


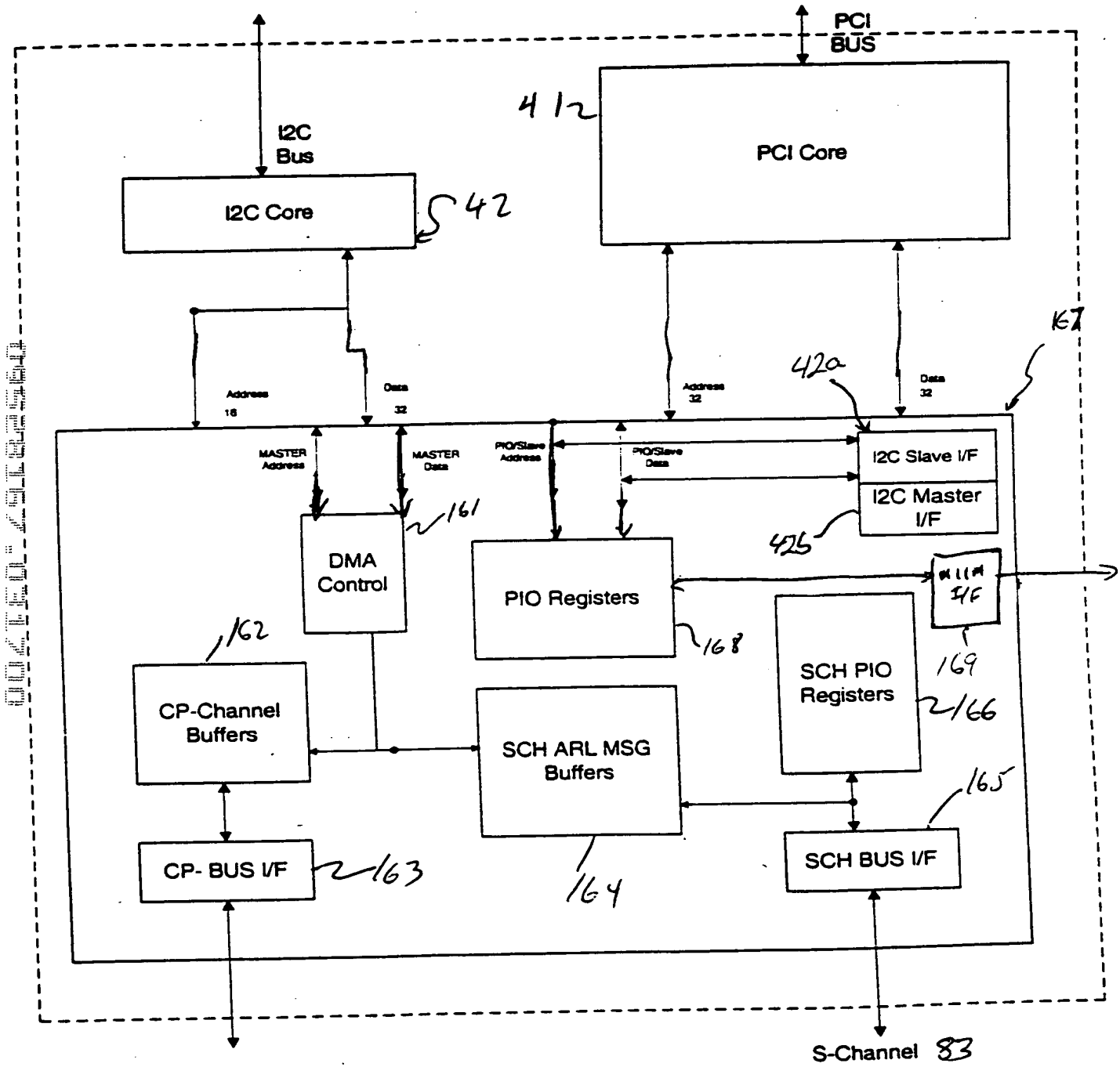
Fig. 14

140



FIG. 15

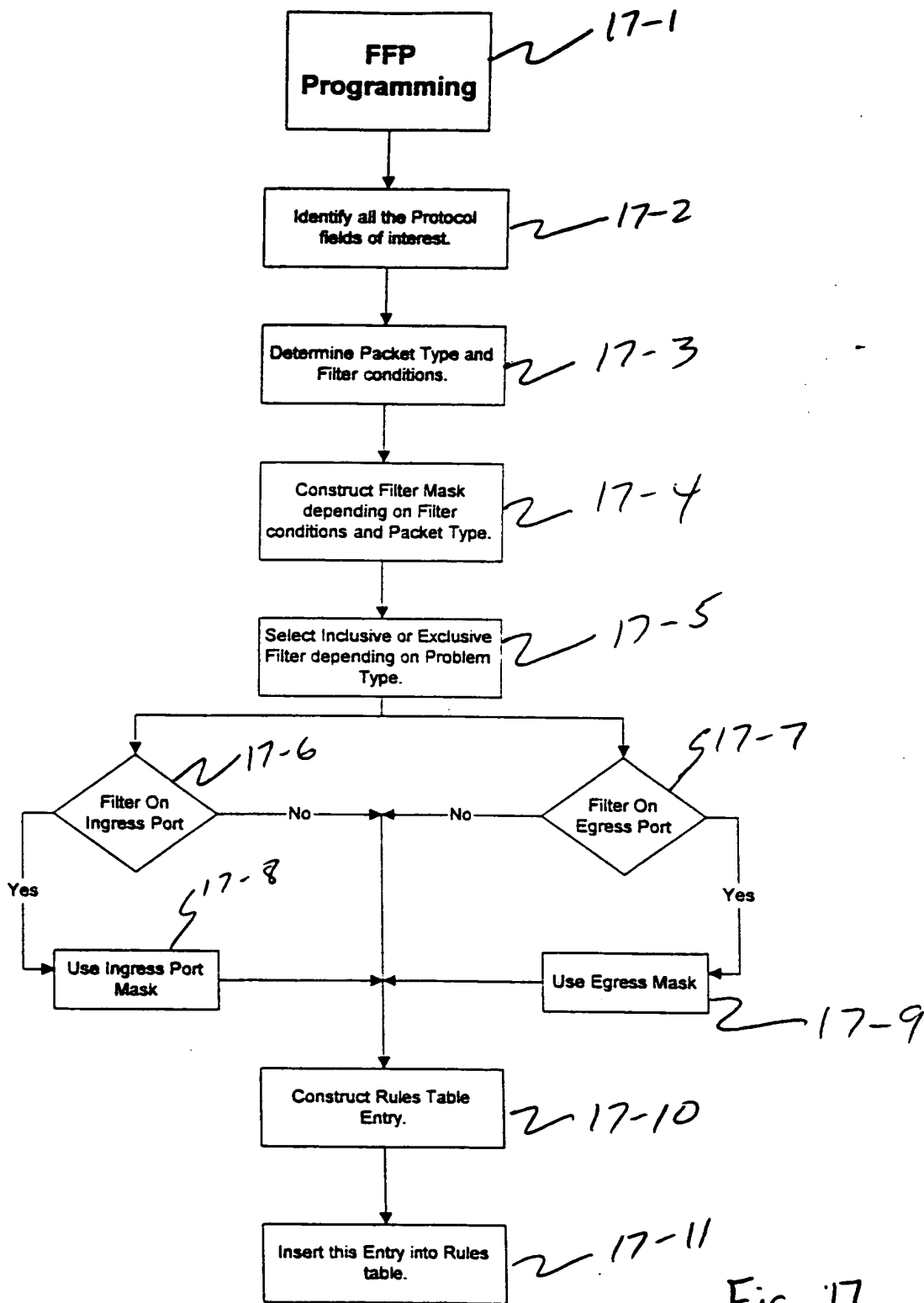
40



C channel 81
P channel 82

Fig. 16

FFP Programming Flow Chart



Age Timer Expired ->
Start ARL Aging
Process;
Start with the first ARL
Entry

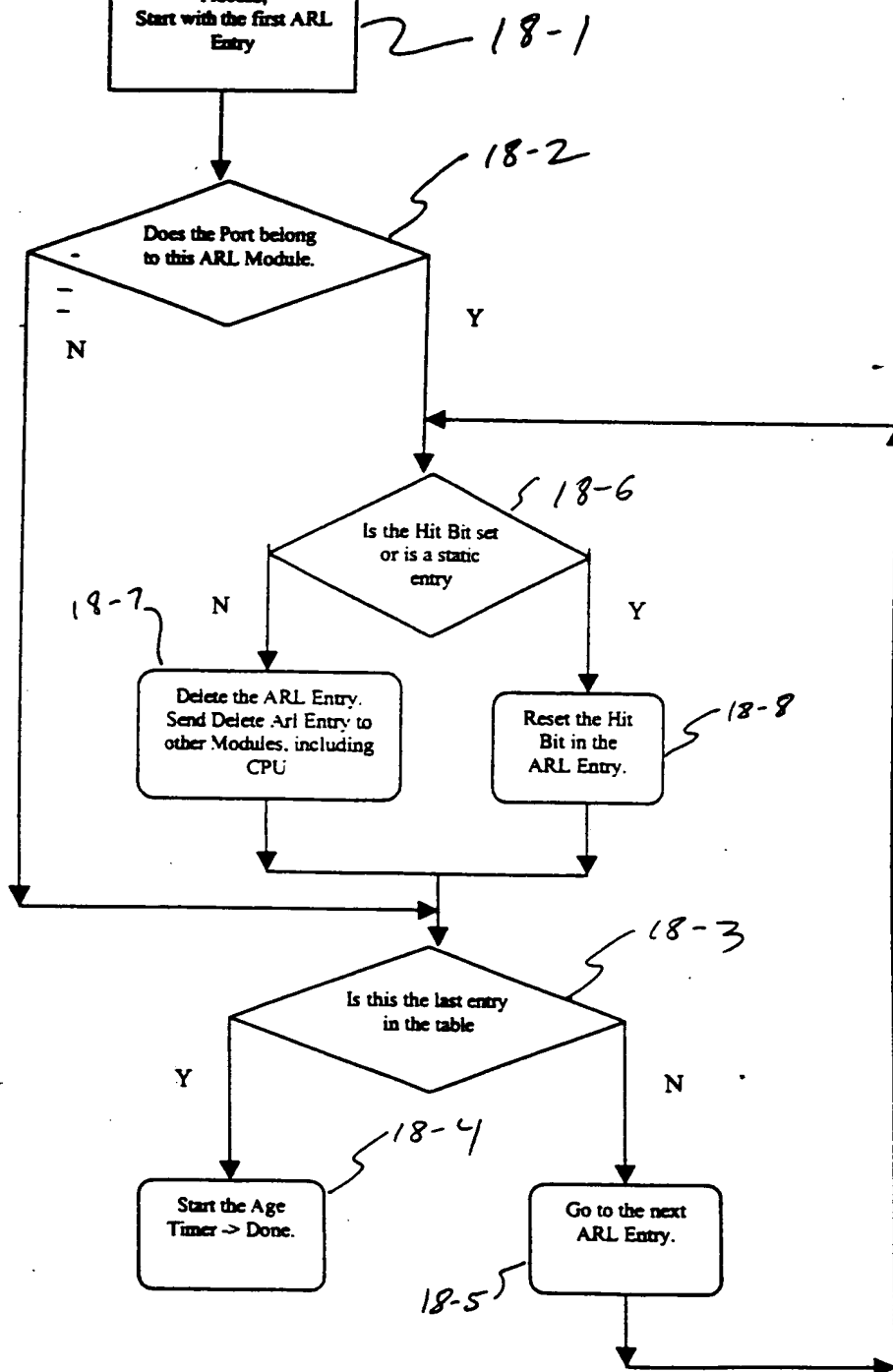


Fig. 18

Country	Year	Population (millions)	Urban population (millions)	Urban population (%)	Population density (per sq km)	Urban population density (per sq km)	Population growth rate (%)	Urban population growth rate (%)	Population growth rate (%)	Urban population growth rate (%)	Population growth rate (%)	Urban population growth rate (%)
Algeria	1980	12.5	5.5	44	100	100	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	1985	13.5	6.5	48	110	110	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	1990	14.5	7.5	52	120	120	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	1995	15.5	8.5	55	130	130	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2000	16.5	9.5	58	140	140	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2005	17.5	10.5	60	150	150	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2010	18.5	11.5	62	160	160	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2015	19.5	12.5	64	170	170	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2020	20.5	13.5	66	180	180	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2025	21.5	14.5	67	190	190	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2030	22.5	15.5	69	200	200	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2035	23.5	16.5	70	210	210	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2040	24.5	17.5	71	220	220	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2045	25.5	18.5	73	230	230	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2050	26.5	19.5	74	240	240	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2055	27.5	20.5	75	250	250	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2060	28.5	21.5	76	260	260	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2065	29.5	22.5	77	270	270	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2070	30.5	23.5	78	280	280	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2075	31.5	24.5	79	290	290	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2080	32.5	25.5	80	300	300	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2085	33.5	26.5	81	310	310	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2090	34.5	27.5	82	320	320	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2095	35.5	28.5	83	330	330	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2100	36.5	29.5	83	340	340	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2105	37.5	30.5	82	350	350	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2110	38.5	31.5	82	360	360	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2115	39.5	32.5	83	370	370	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2120	40.5	33.5	83	380	380	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2125	41.5	34.5	83	390	390	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2130	42.5	35.5	84	400	400	1.5	1.5	1.5	1.5	1.5	1.5
Algeria	2135	43.5	36.5									

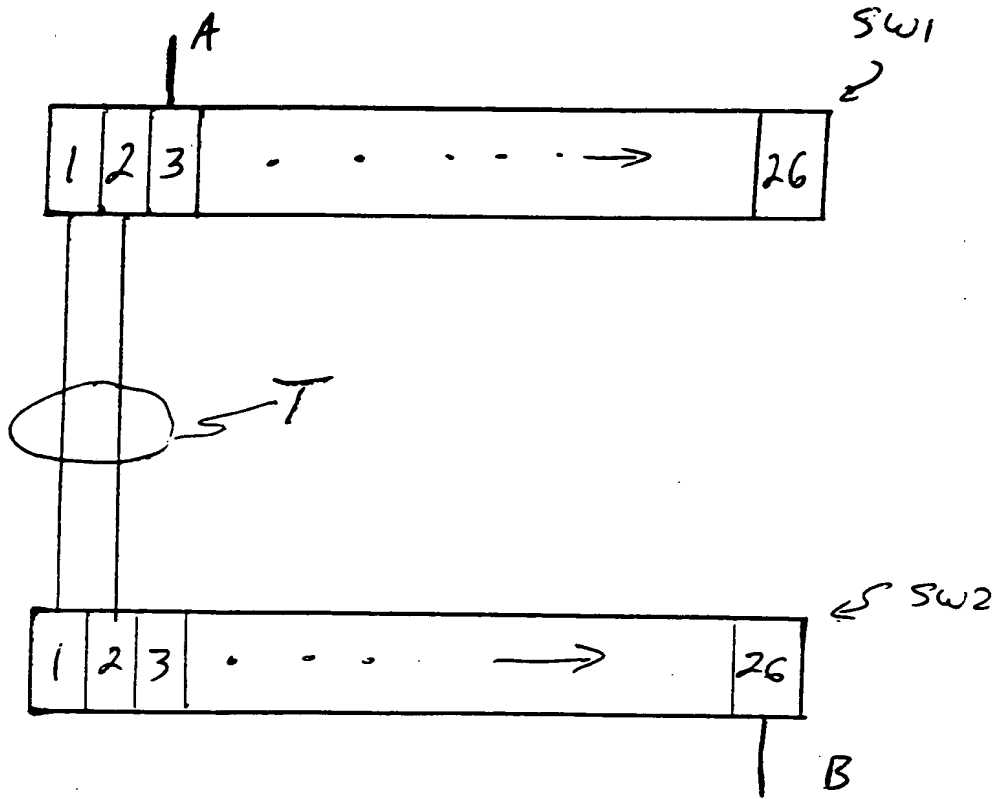


Fig. 19

Figure 20

Fig. 21a

Filter Mask Format:

Filter Enable (1b)	Counter (5b)	Rem Port (1b)	Output Mod (5b)	Output Port (6b)	TOS Prec (3b)	Diff Serv (6b)	802.1p Prior (3b)	
NMA Enb (1b)	No Match Action (10b)	Data Offset 4 (7b)	Data Offset 3 (7b)	Data Offset 2 (7b)	Data Offset 1 (7b)	Ingress Port Mask (6b)	Egress ModId Mask (5b)	Egress Port Mask (6b)
Field Mask								

Field Mask Format:

Dest Mac addr (6 B)	Src Mac addr (6 B)	Prot type (2 B)	Dest SAP (1 B)	Src SAP (1 B)	802.1 p Prio (3 b)	Vlan Id (12b)	TOS Prec (3b)	Diff Serv (6b)	Src IP addr (4B)	Dest IP addr (4 B)	Prot IP- (1B)	Src Port (2B)	Dest Port (2B)
TCP Cntr Flags (1B)		Data 1 (8B)	Data 2 (8 B)	Data 3 (8B)	Data 4 (8B)								

00000100 00000000

Fig 21b.

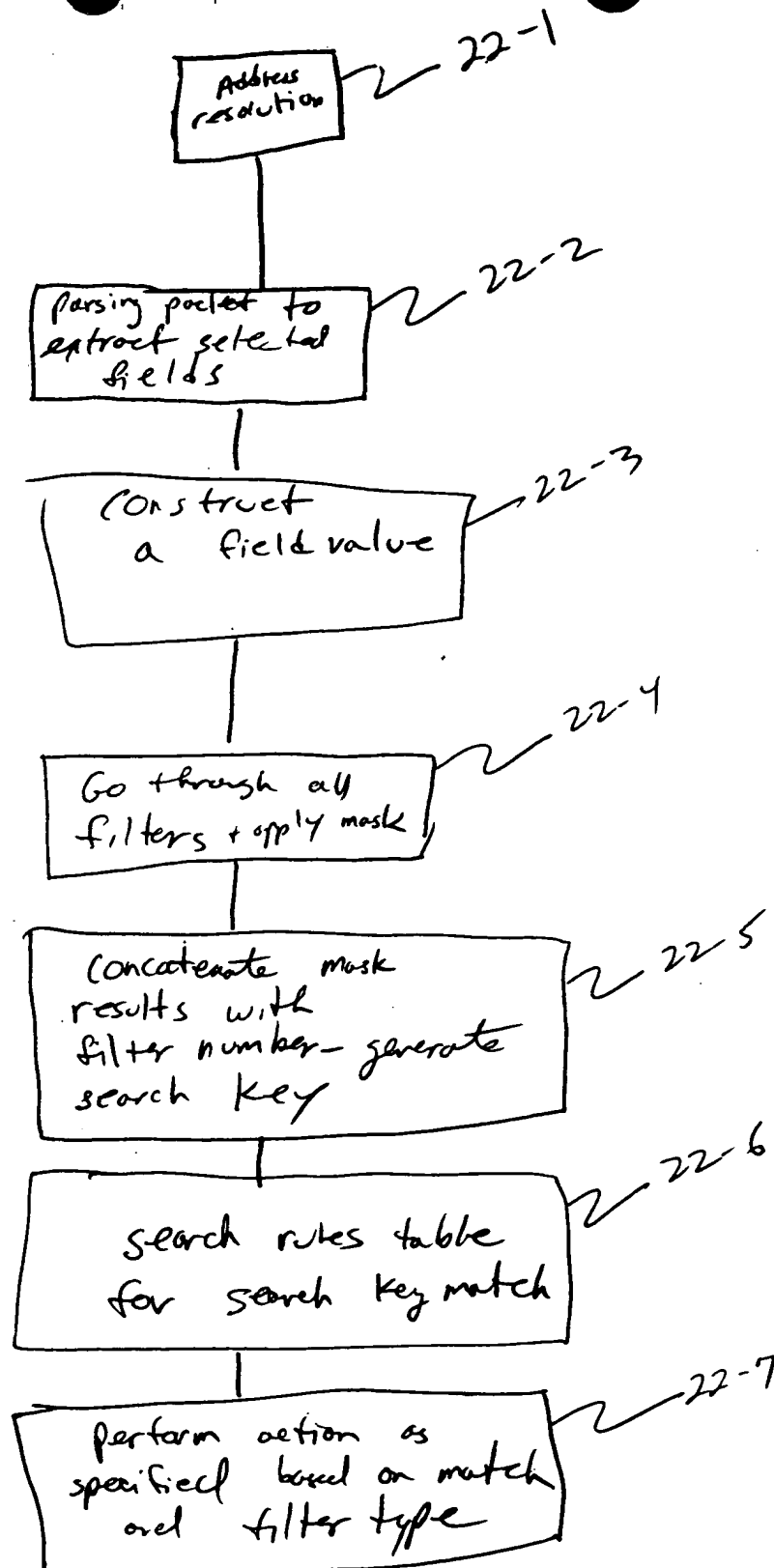


Fig. 22

Variable	Mean	Standard Deviation	Minimum	Maximum
Age	34.5	10.2	22	55
Gender	0.5	0.5	0	1
Marital Status	0.6	0.5	0	1
Education	12.5	1.5	10	16
Income	3500	1500	1000	8000
Health	0.8	0.2	0	1
Smoking	0.3	0.5	0	1
Alcohol	0.2	0.4	0	1
Exercise	0.4	0.5	0	1
Stress	0.6	0.5	0	1
Depression	0.3	0.5	0	1
Loneliness	0.4	0.5	0	1
Life Satisfaction	0.7	0.3	0	1
Quality of Life	0.8	0.2	0	1
Overall Health	0.9	0.1	0	1

[illegible]

Fig. 23

30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	0
Source IP Address															
Multicast IP Address															
r	L3 Port Bitmap														
L3 Module Bitmap															
Unused											TTL Threshold		Source Port		

Fig. 24

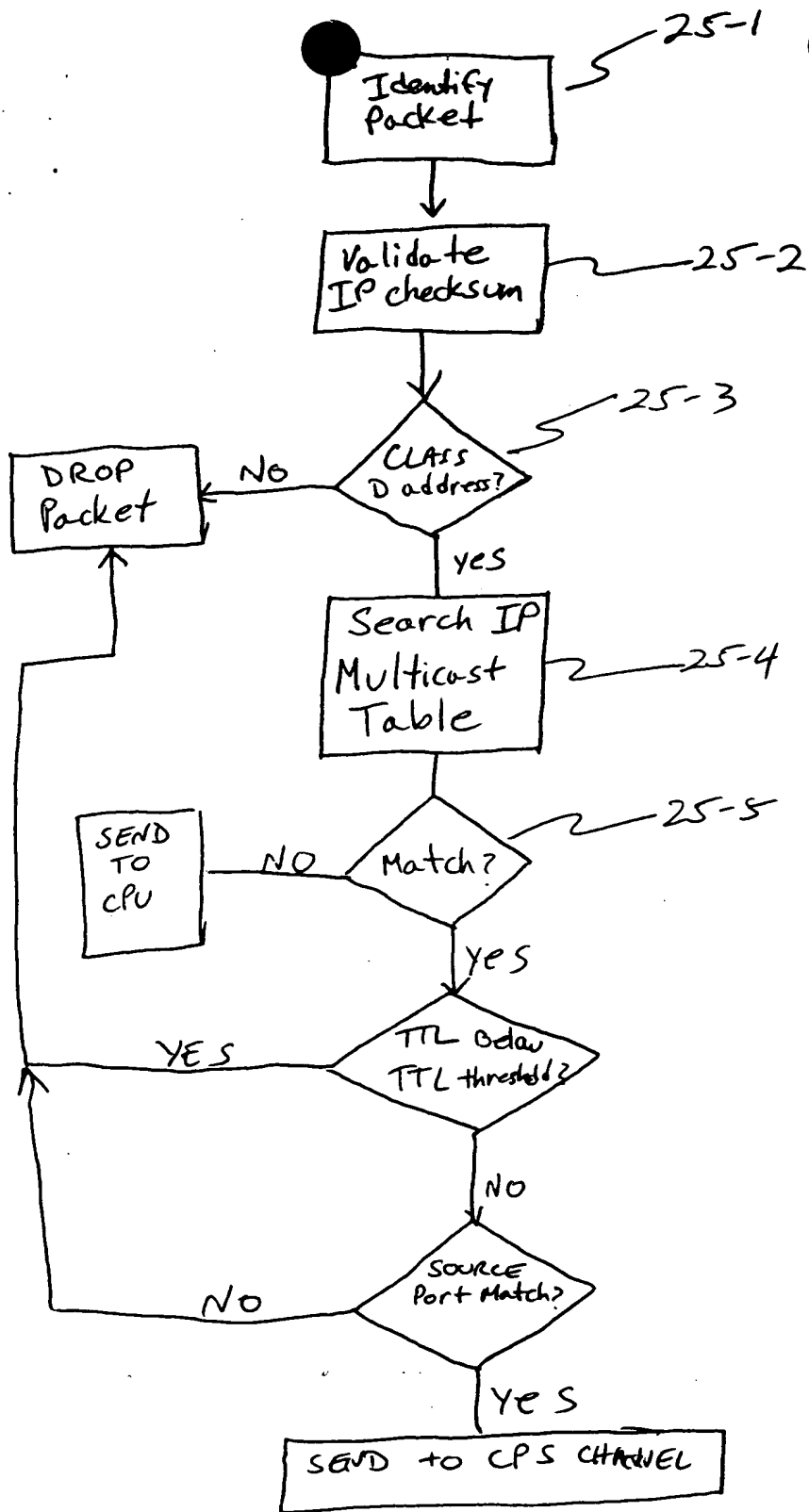


Fig. 25

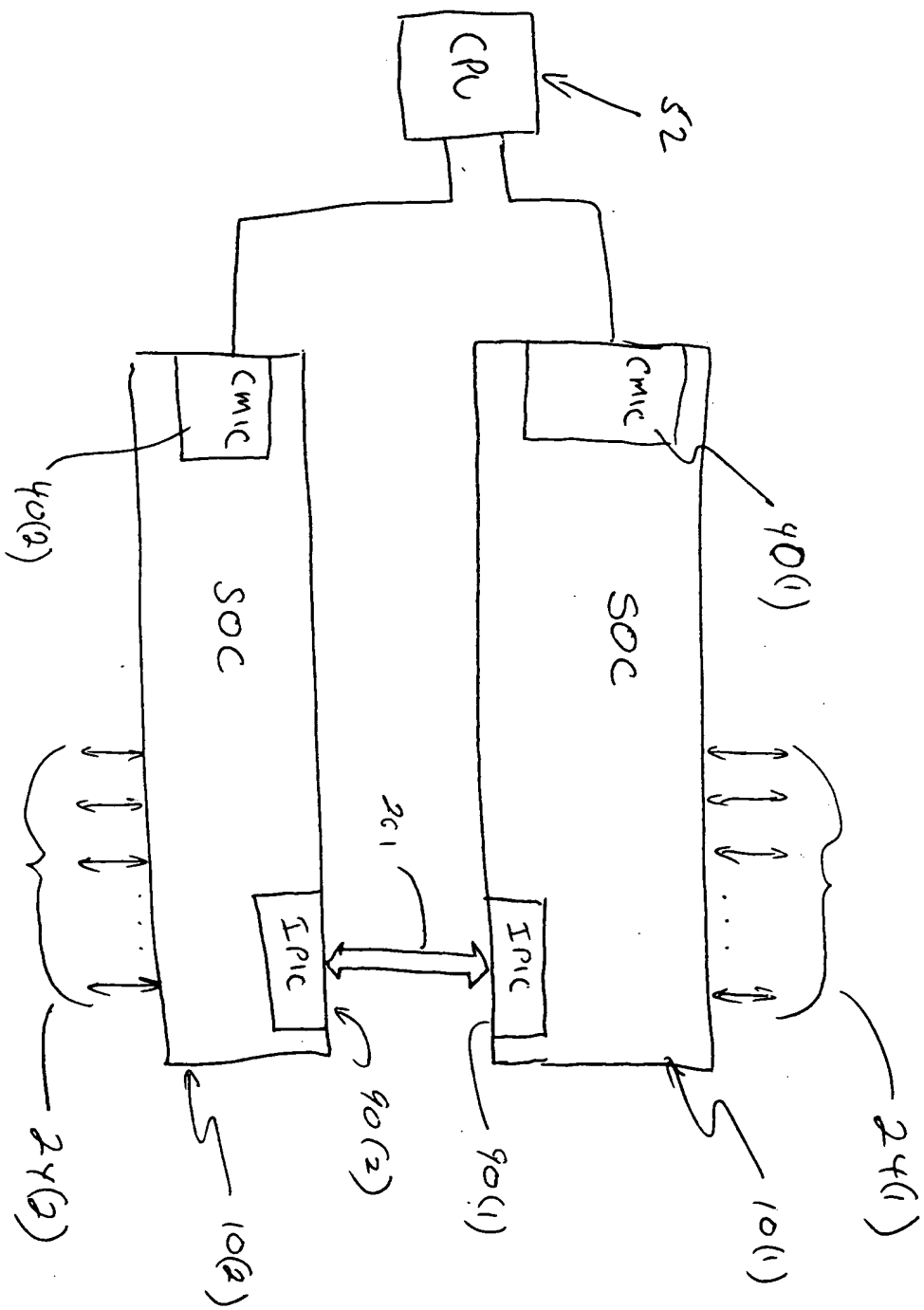


Fig. 26
09508157.031700

Fig. 27a

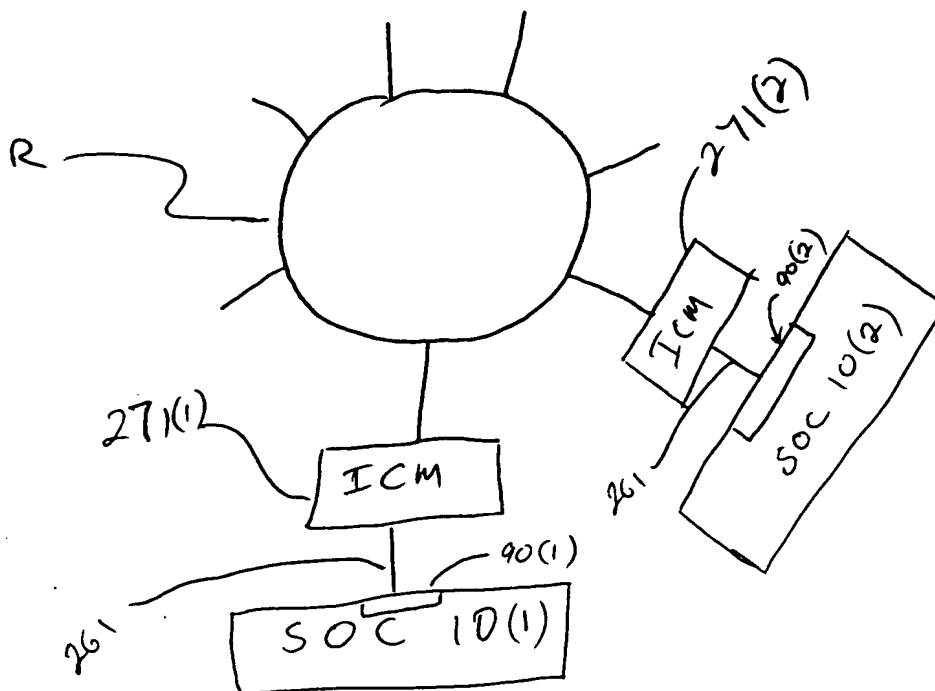
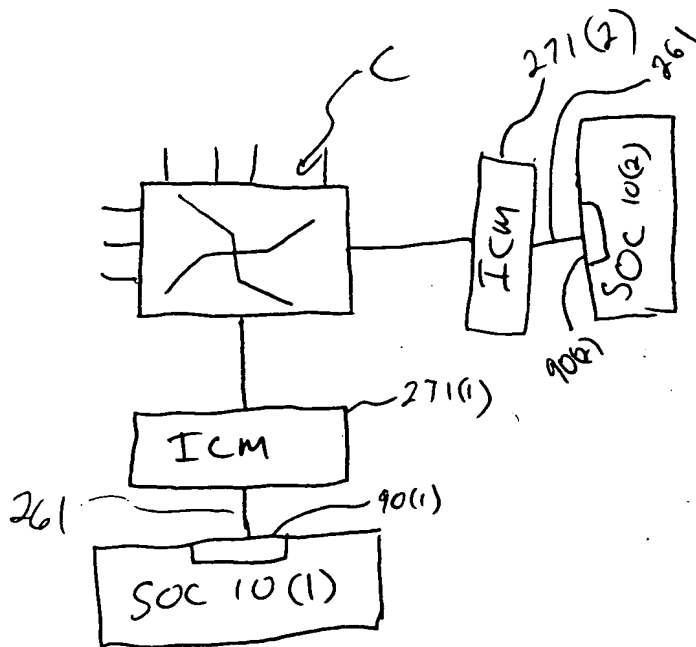


Fig. 27b



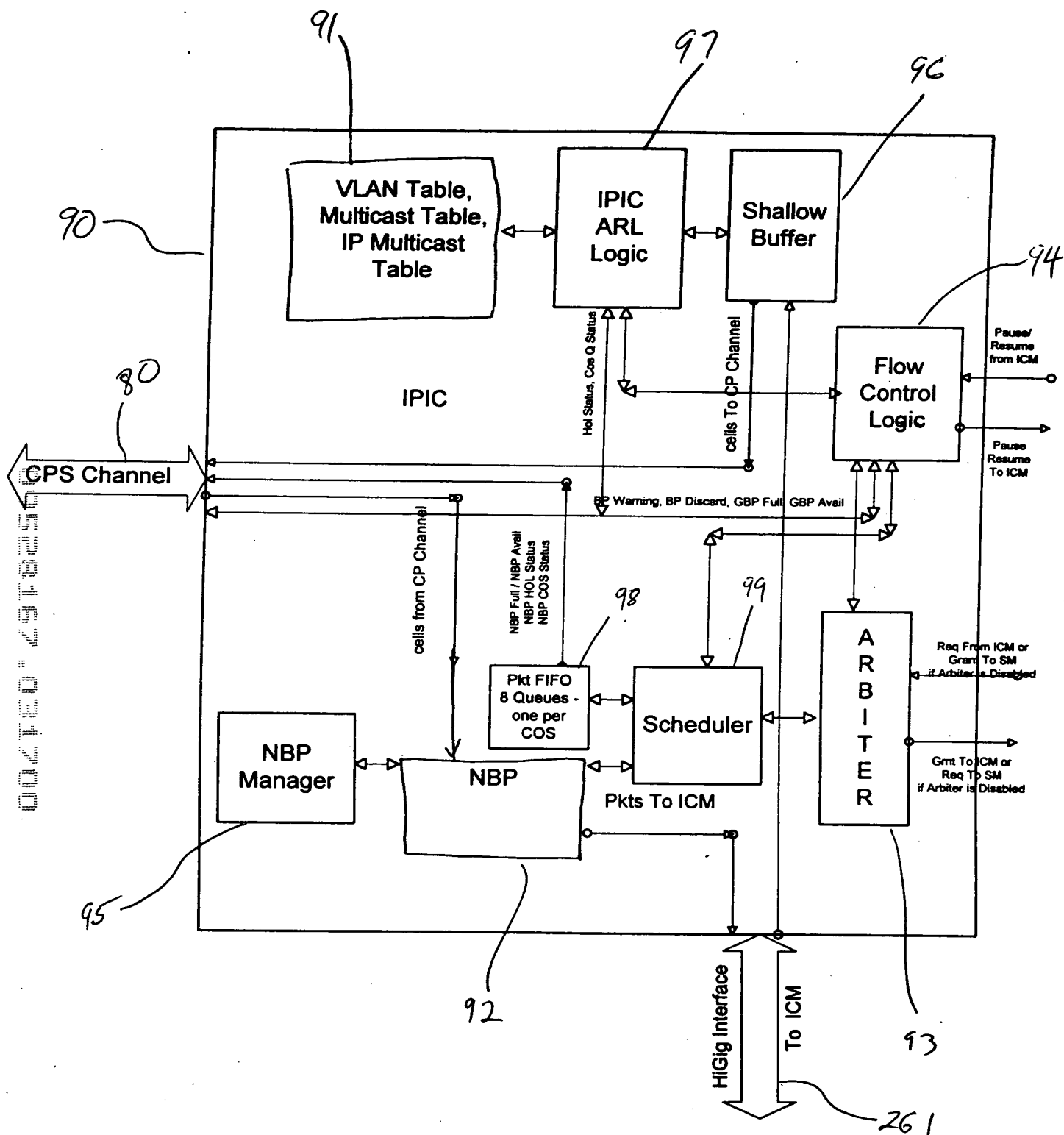


Fig 28.

00528467-034700

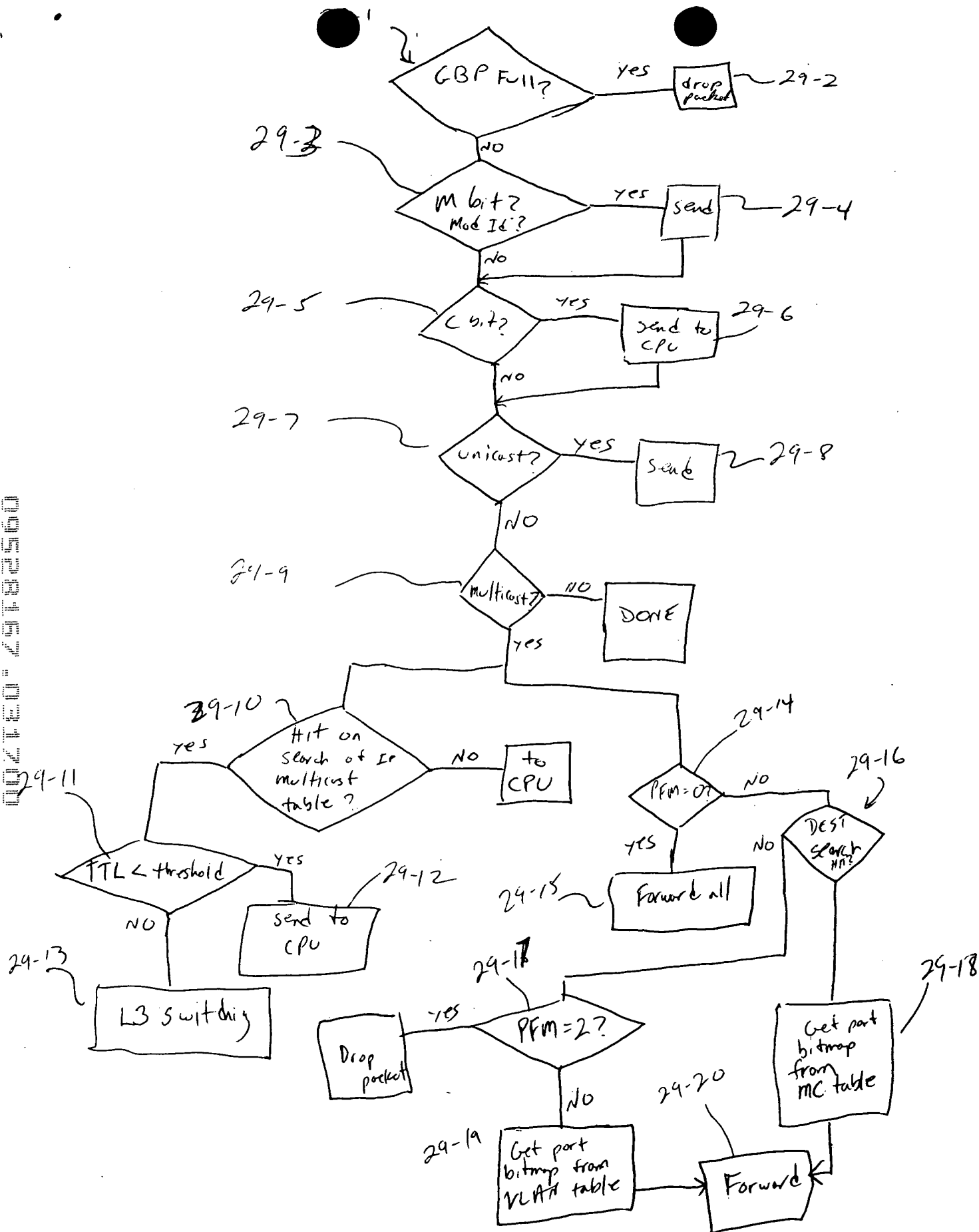


Fig. 29

COS Queue (3b)	C P F	NCA (2b)	802.1p Priority (3b)	Rate Counter (8b)	Rate Counter Threshold (8b)	Rate Discard Threshold (8b)	New Code Point (6b)	New COS Queue (3b)	New 802.1p Priority (3b)
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FIGURE 30

002200-948660

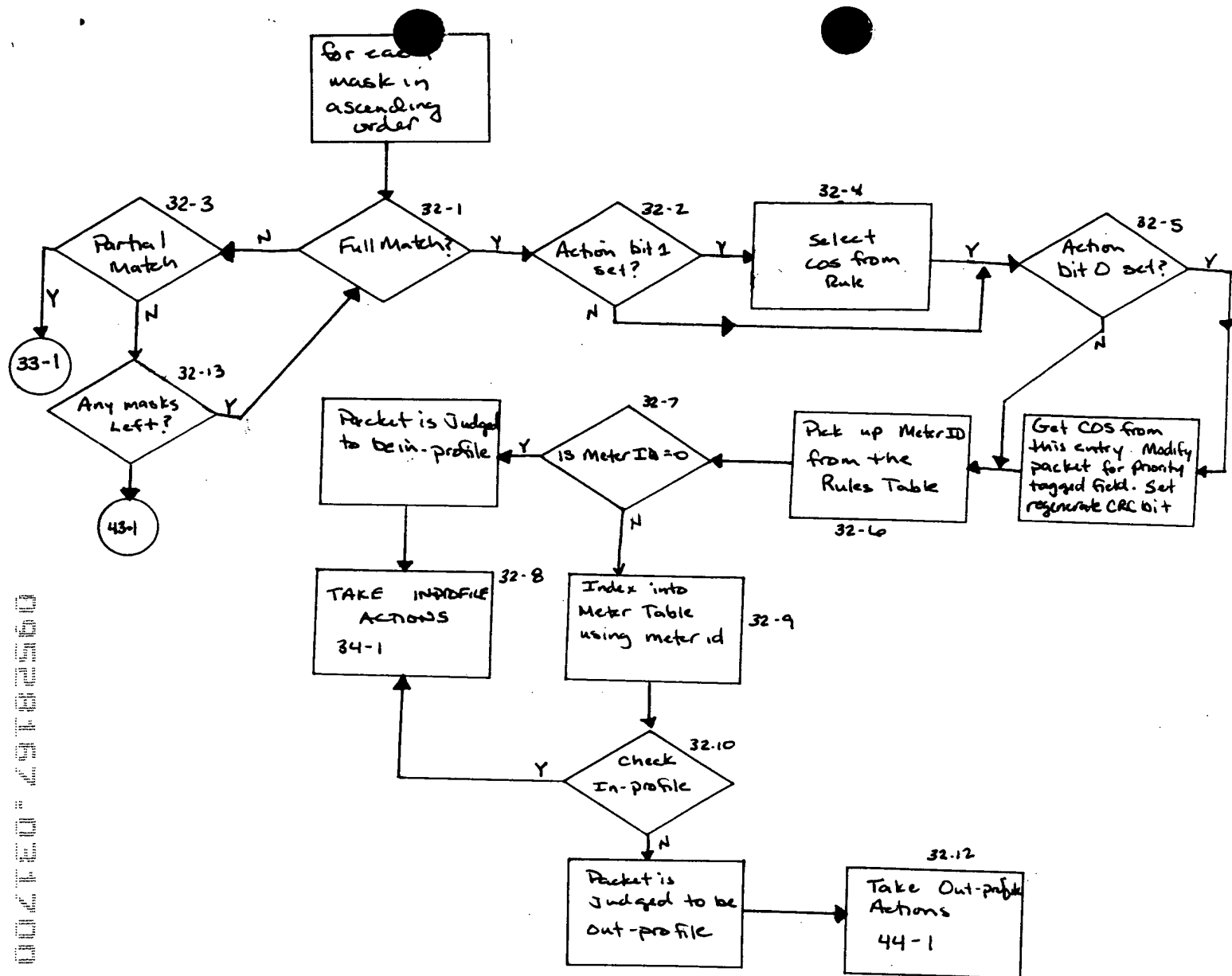


FIGURE 32

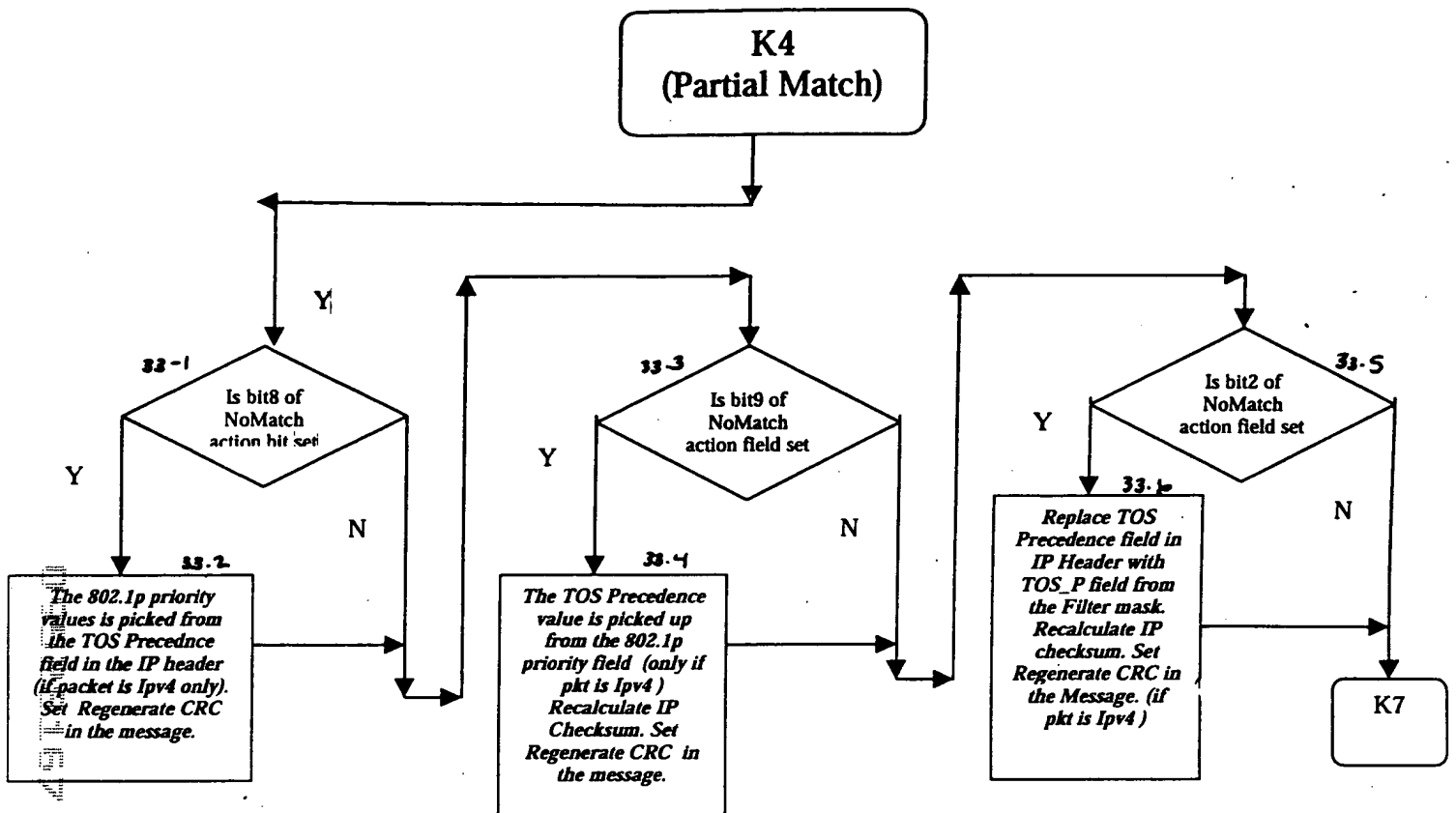


FIGURE 33

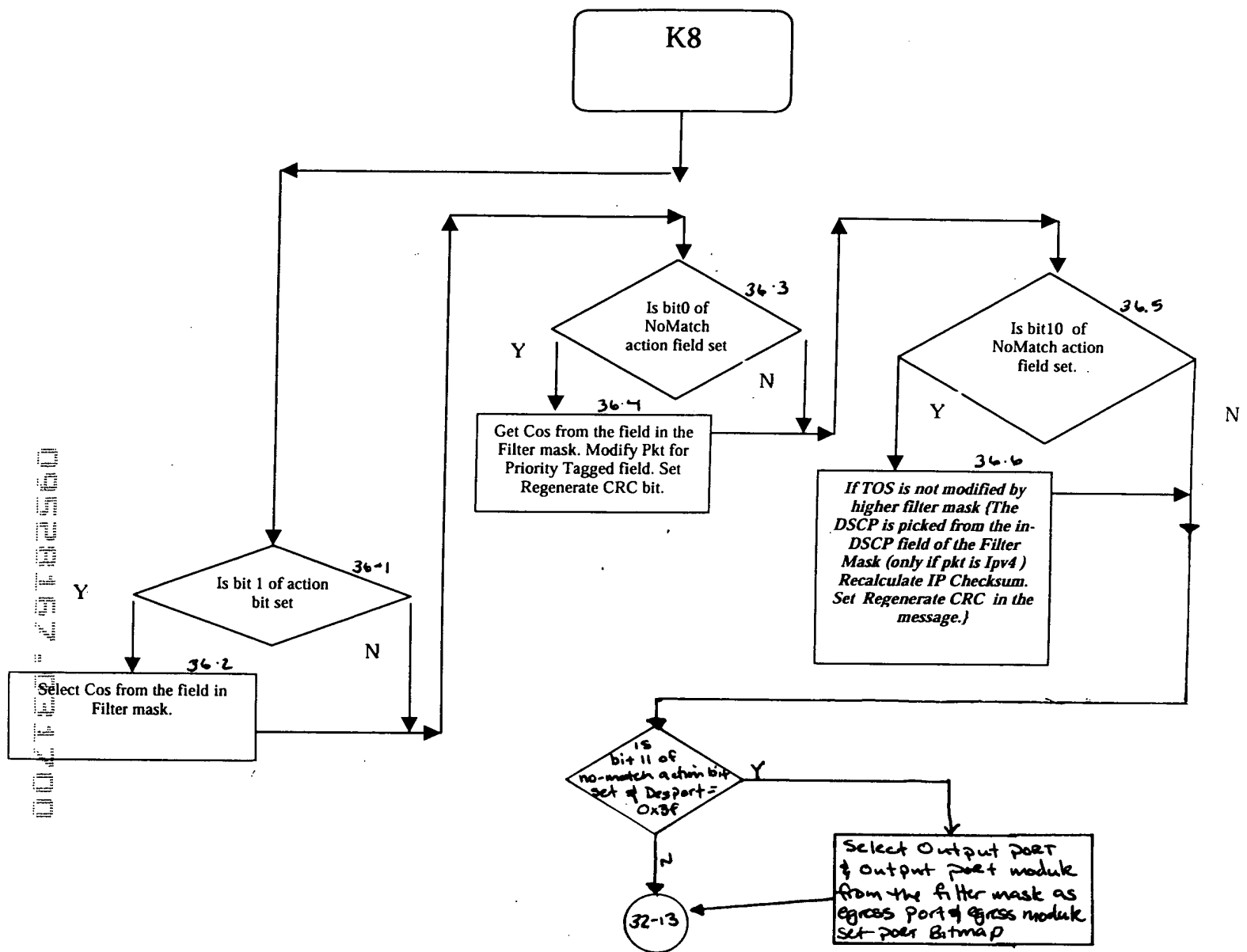


FIGURE 36

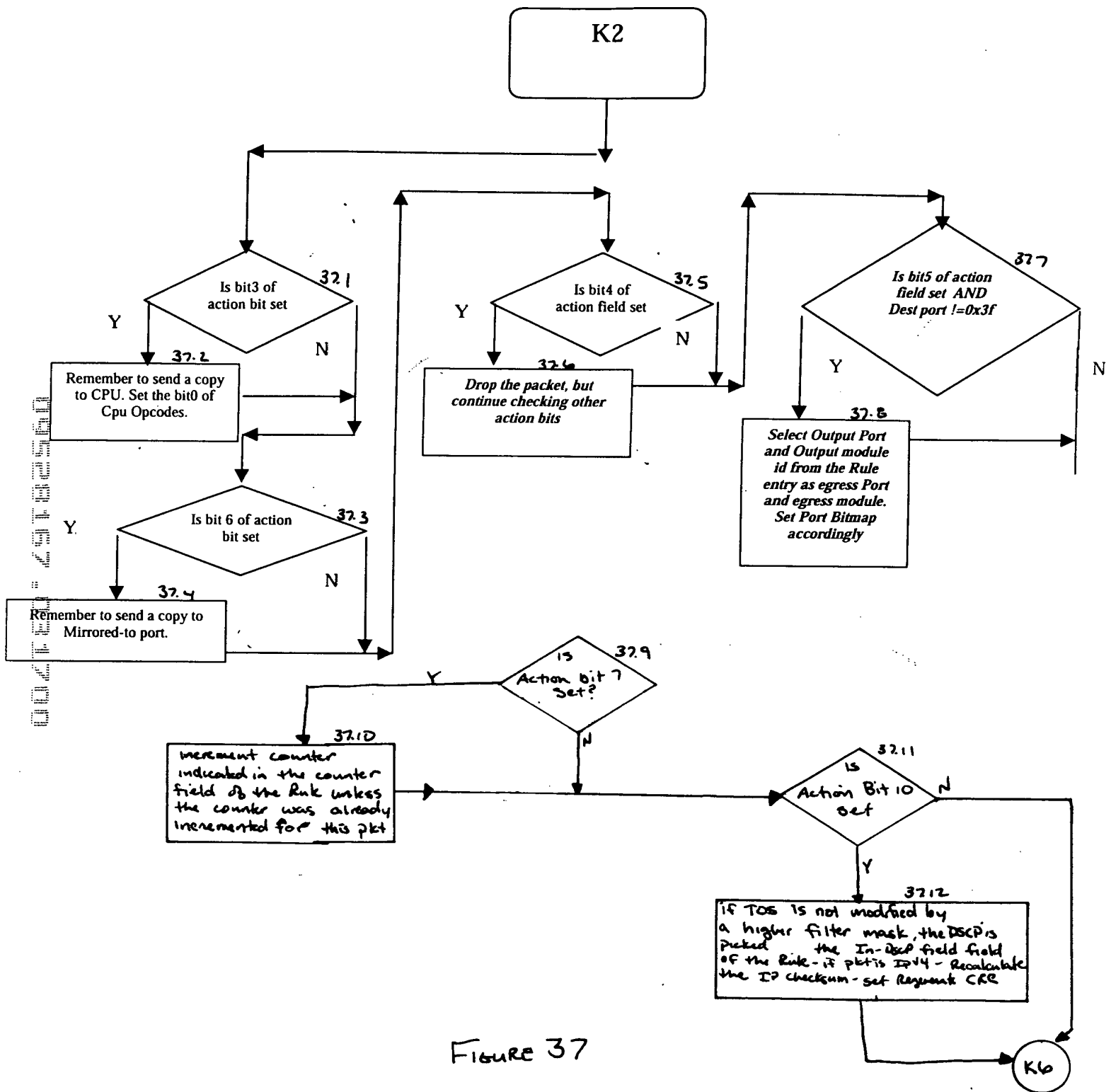


Figure 37

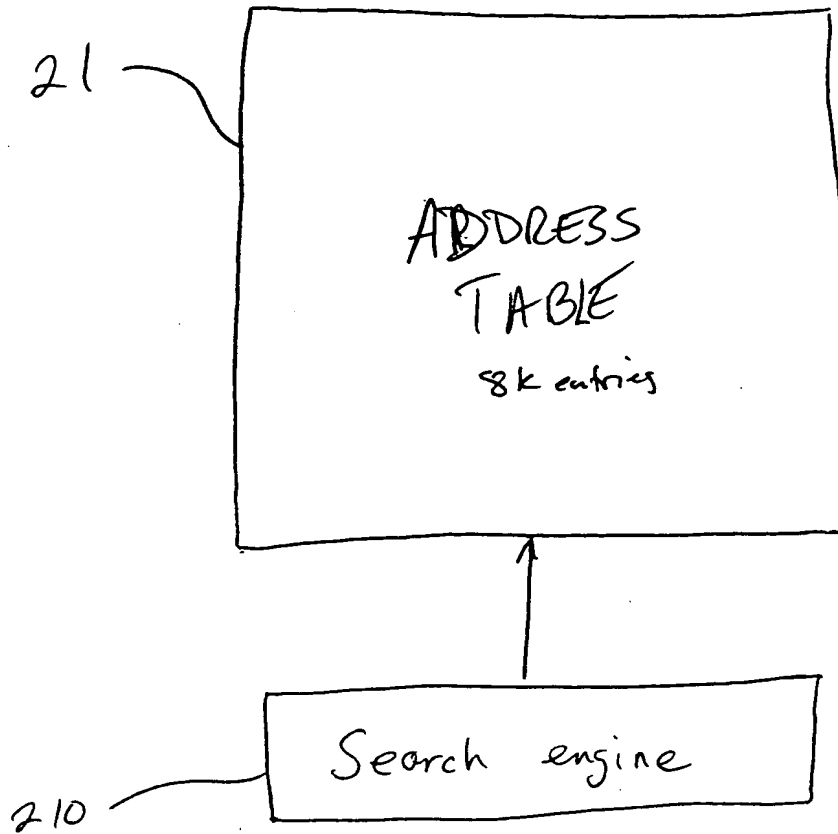


Fig 38

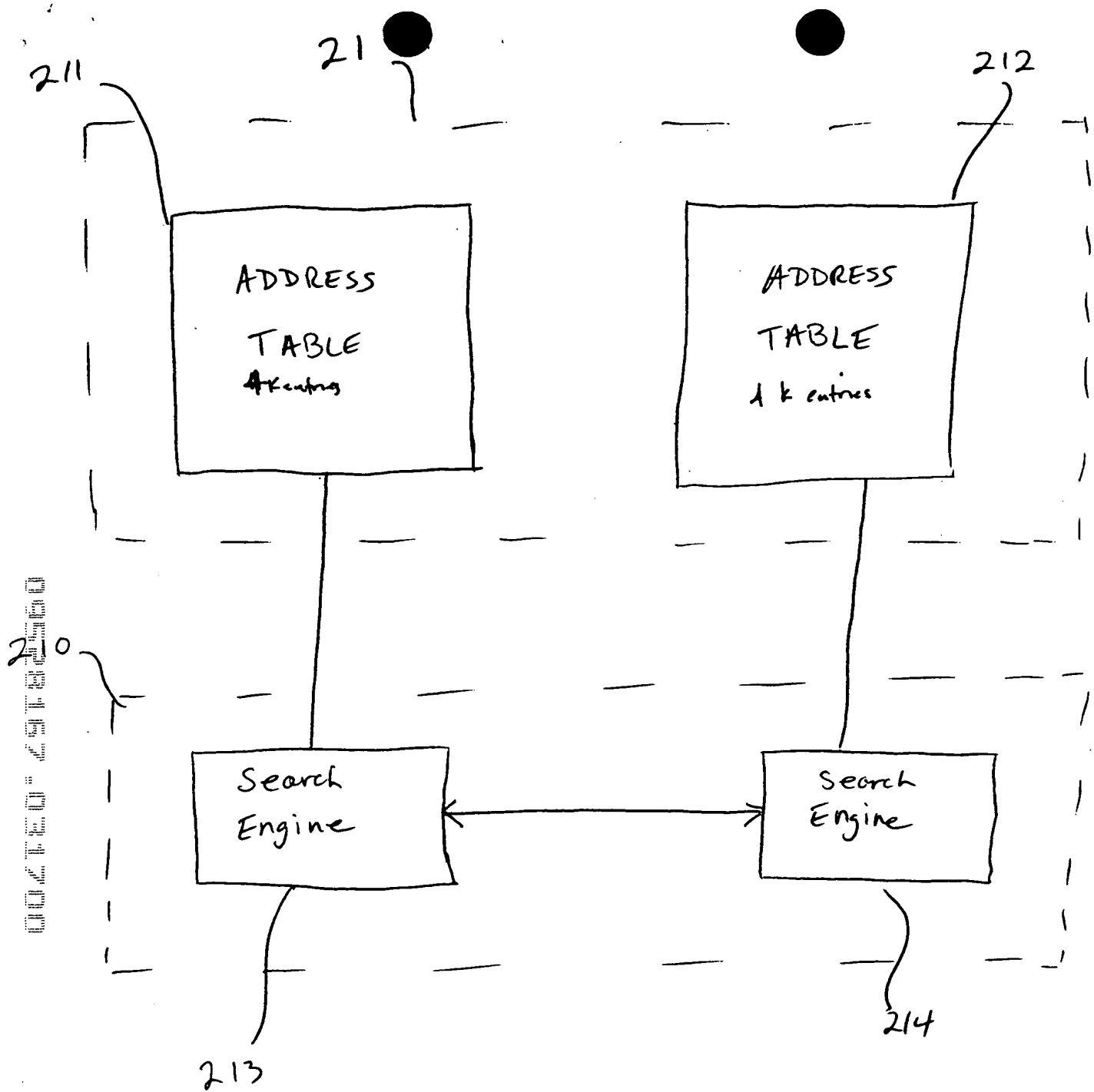


Fig. 39

Figure 40a

21 ~

address	entry
31	AF
30	AE
29	AD
28	AC
27	AB
26	AA
25	Z
24	Y
23	X
22	W
21	V
20	U
19	T
18	S
17	R
16	Q
15	P
14	O
13	N
12	M
11	L
10	K
9	J
8	I
7	H
6	G
5	F
4	E
3	D
2	C
1	B
0	A

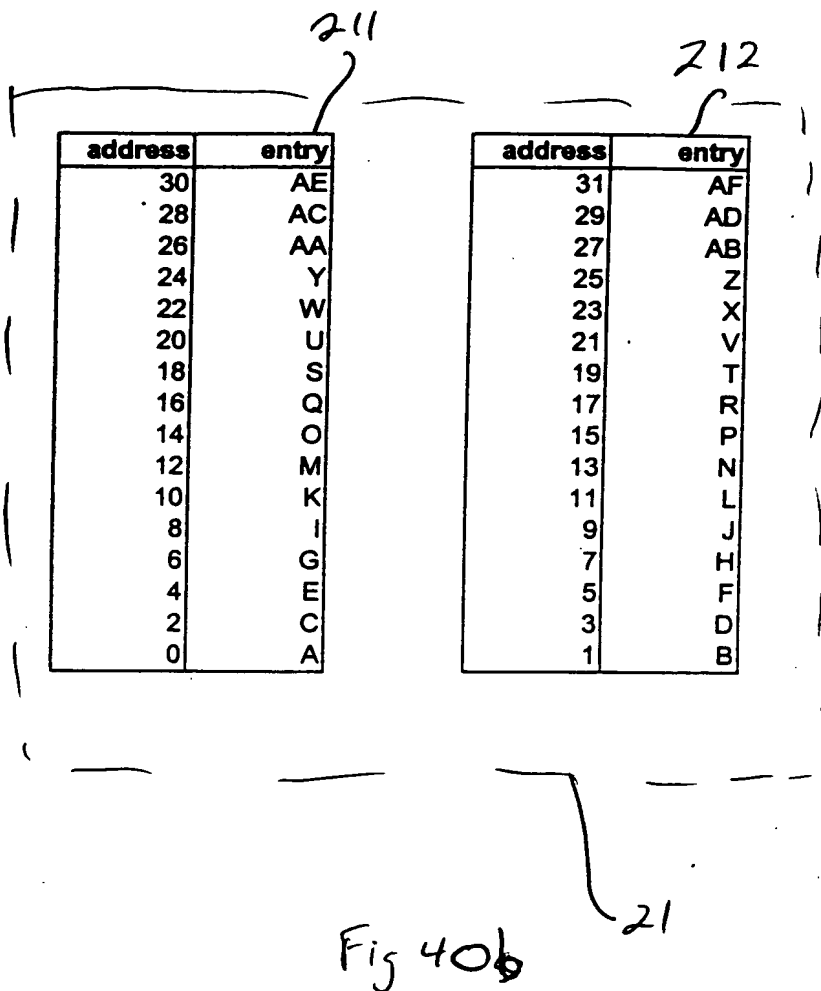


Figure 4/a

address	entry
31	NN
30	MM
29	LL
28	KK
27	JJ
26	GH
25	CF
24	CC
23	BE
22	BD
21	BC
20	BA
19	AC
18	AB
17	AA
16	Y
15	X
14	V
13	T
12	S
11	R
10	Q
9	N
8	M
7	L
6	K
5	J
4	G
3	E
2	D
1	C
0	B

address	entry
30	MM
28	KK
26	GH
24	CC
22	BD
20	BA
18	AB
16	Y
14	V
12	S
10	Q
8	M
6	K
4	G
2	D
0	B

address	entry
31	NN
29	LL
27	JJ
25	CF
23	BE
21	BC
19	AC
17	AA
15	X
13	T
11	R
9	N
7	L
5	J
3	E
1	C

Fig 4/a

0047ED-29182560

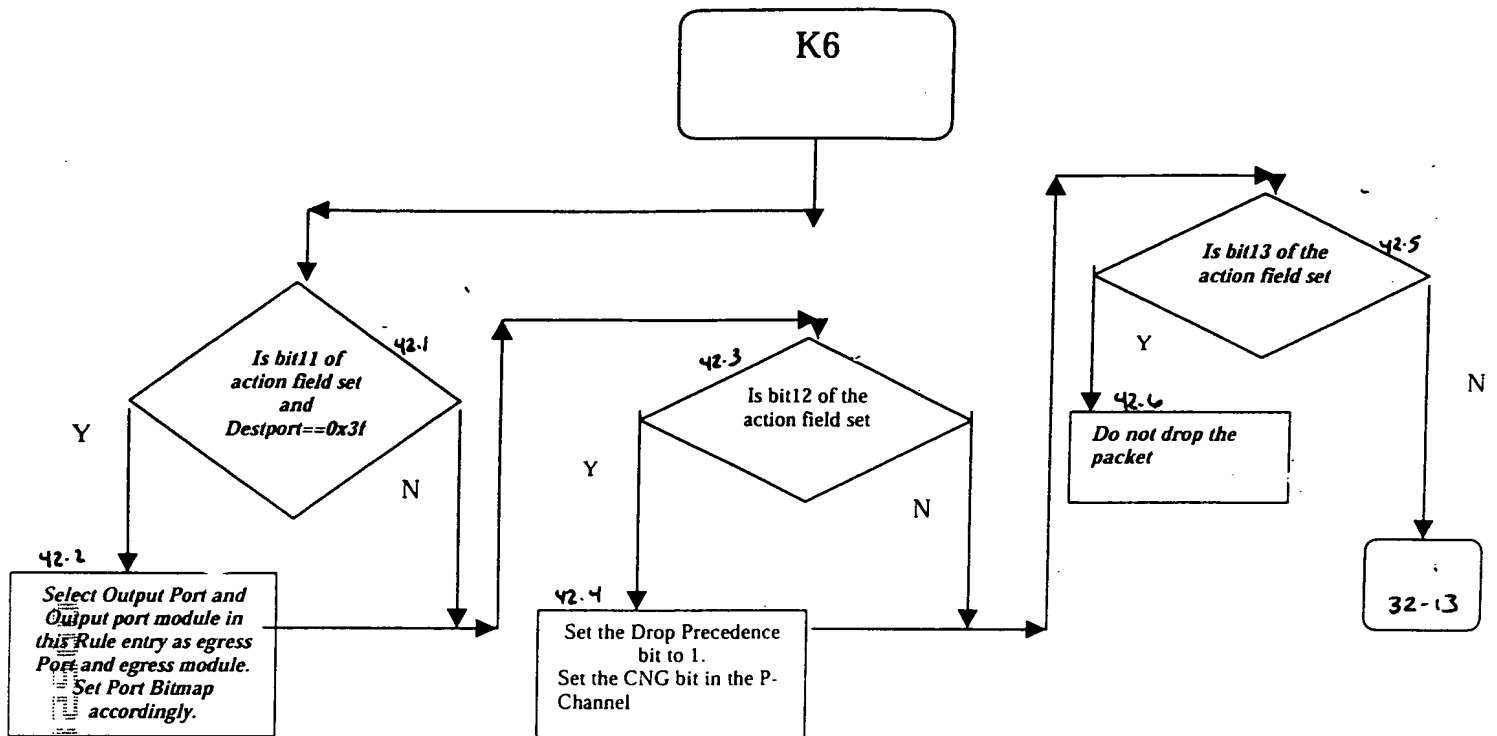


Figure 72

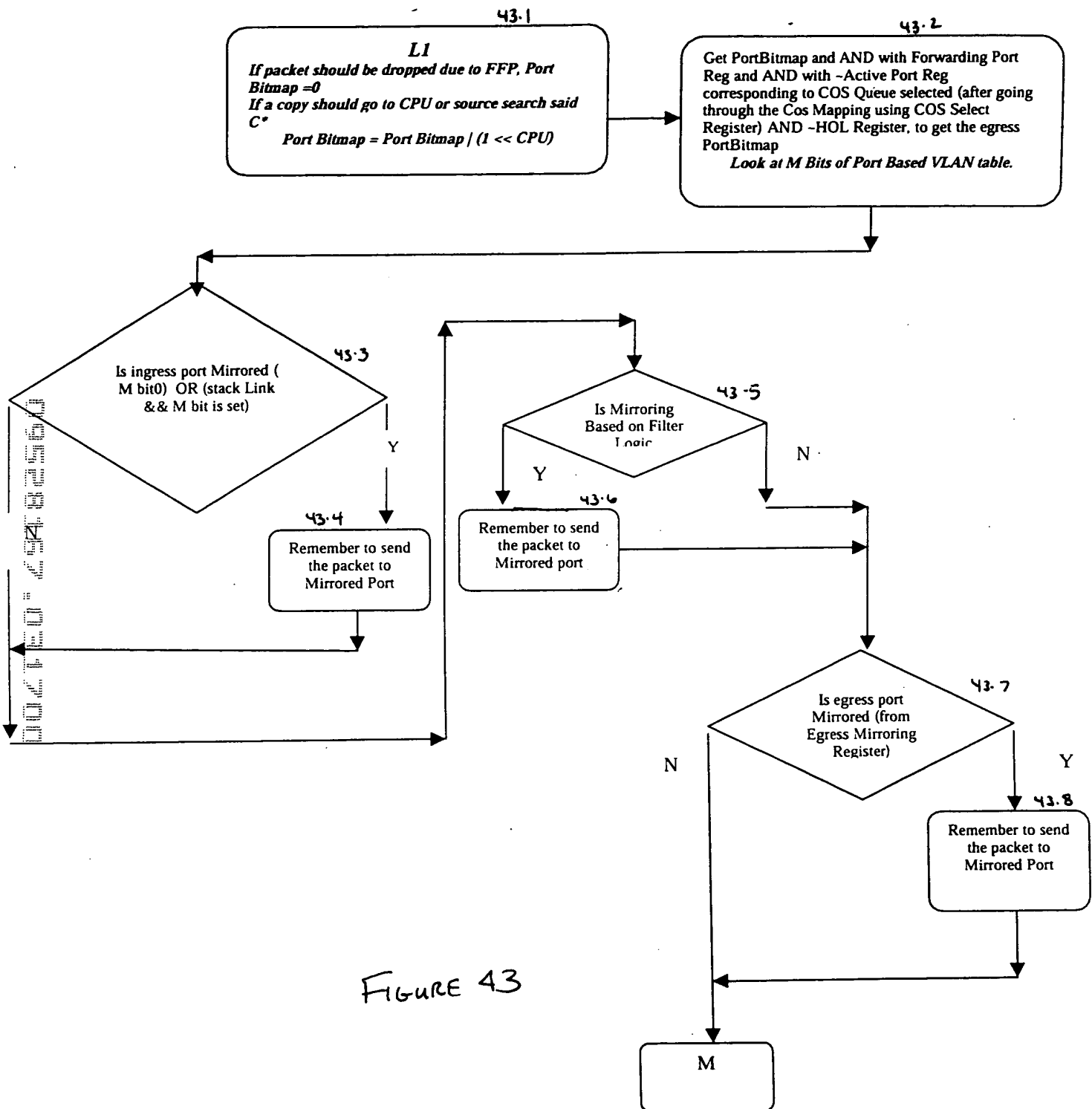


Figure 43

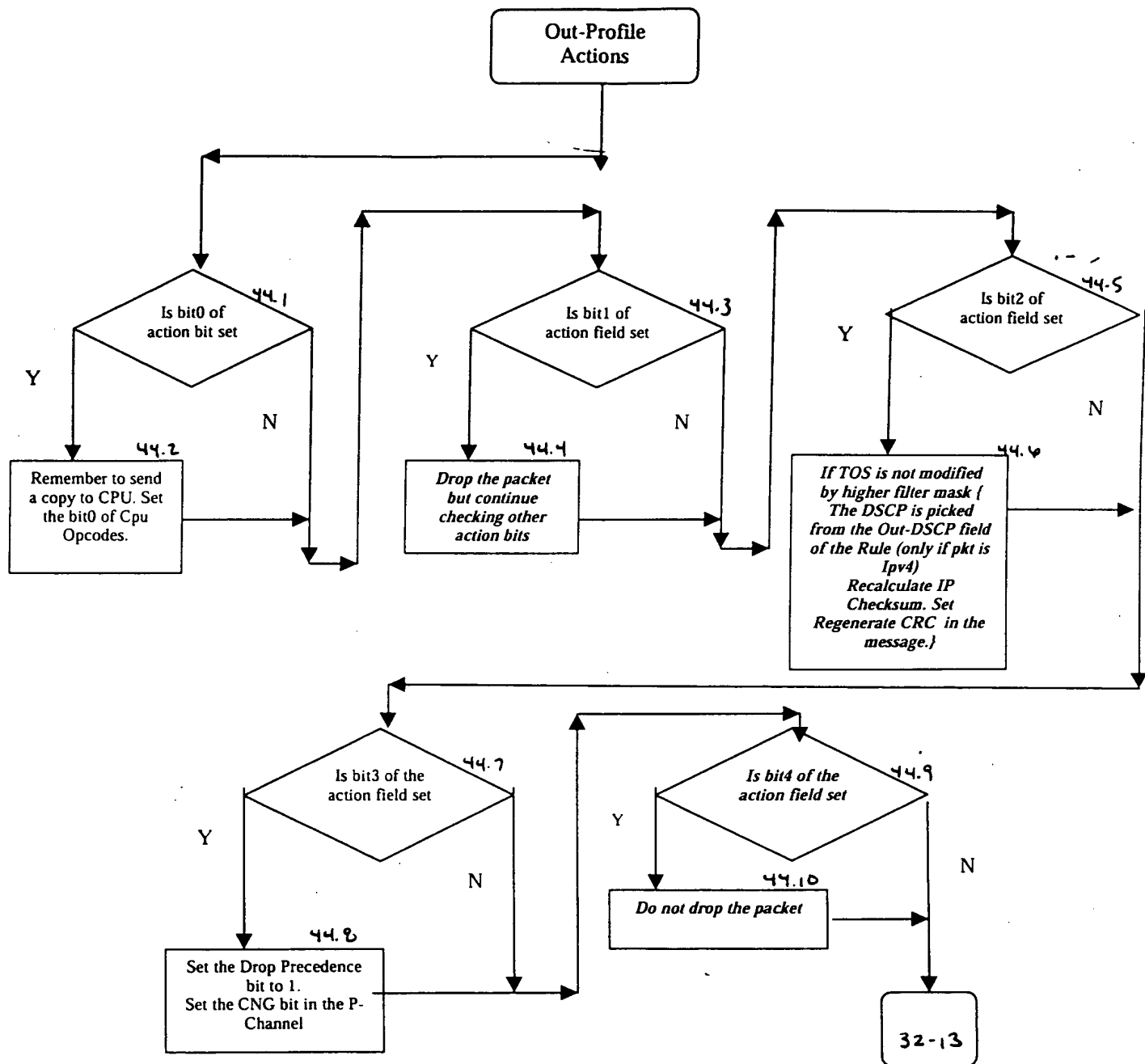


FIGURE 44

ADDRESS
RESOLUTION
LOGIC



FAST
FILTERING
LOGIC



Differentiated
Services
Logic



COS
manager

FIGURE 45

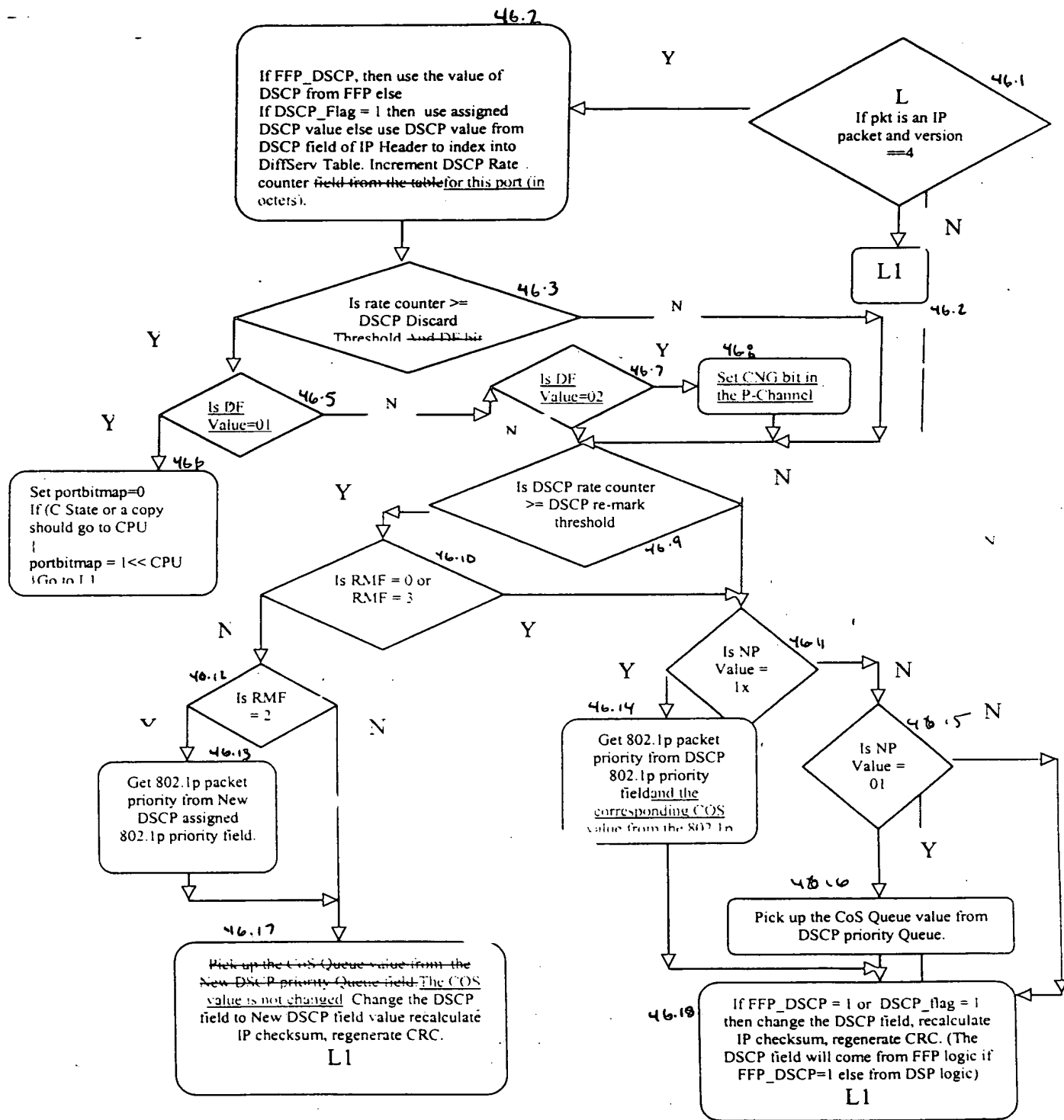
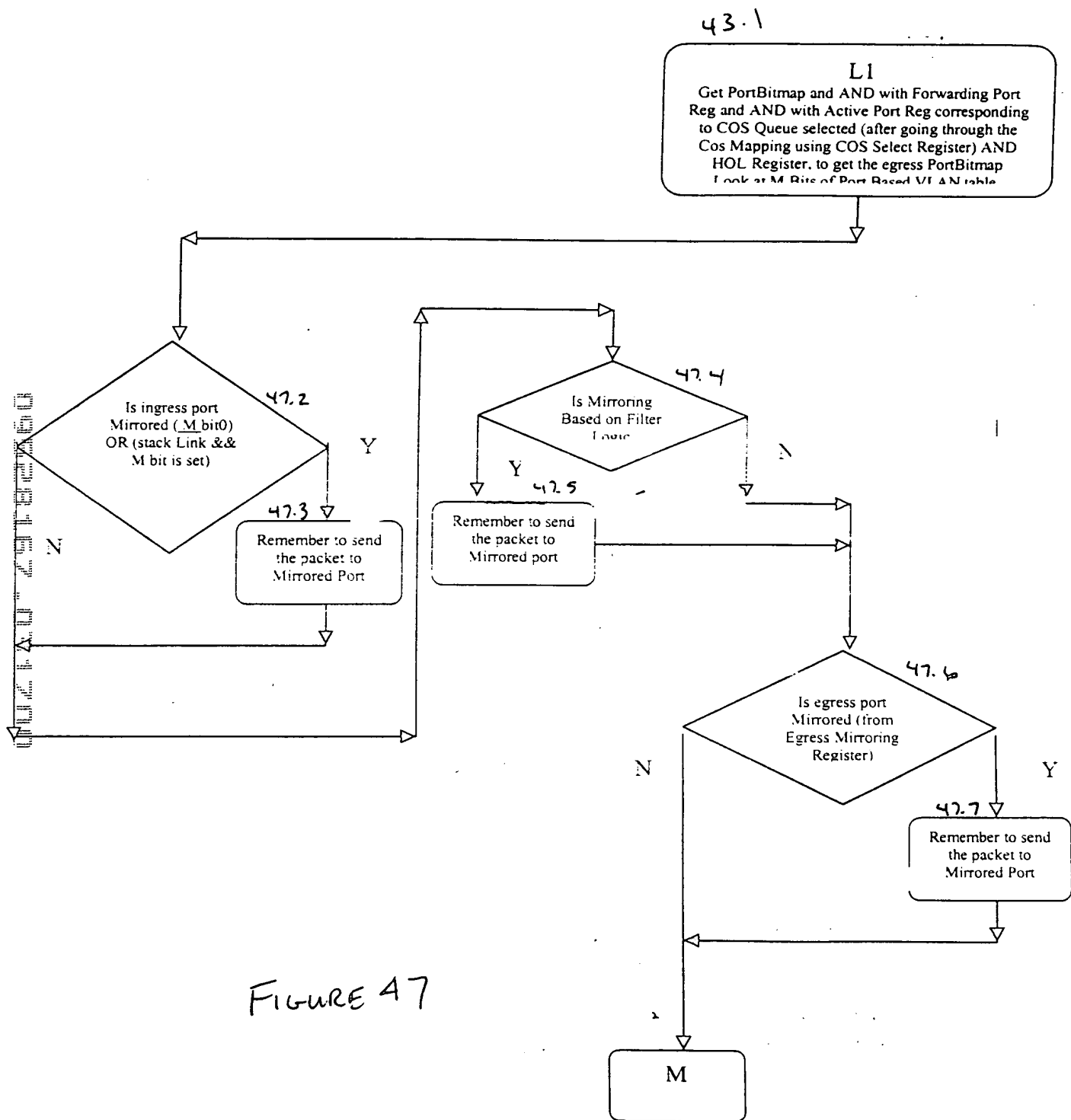


FIGURE 46



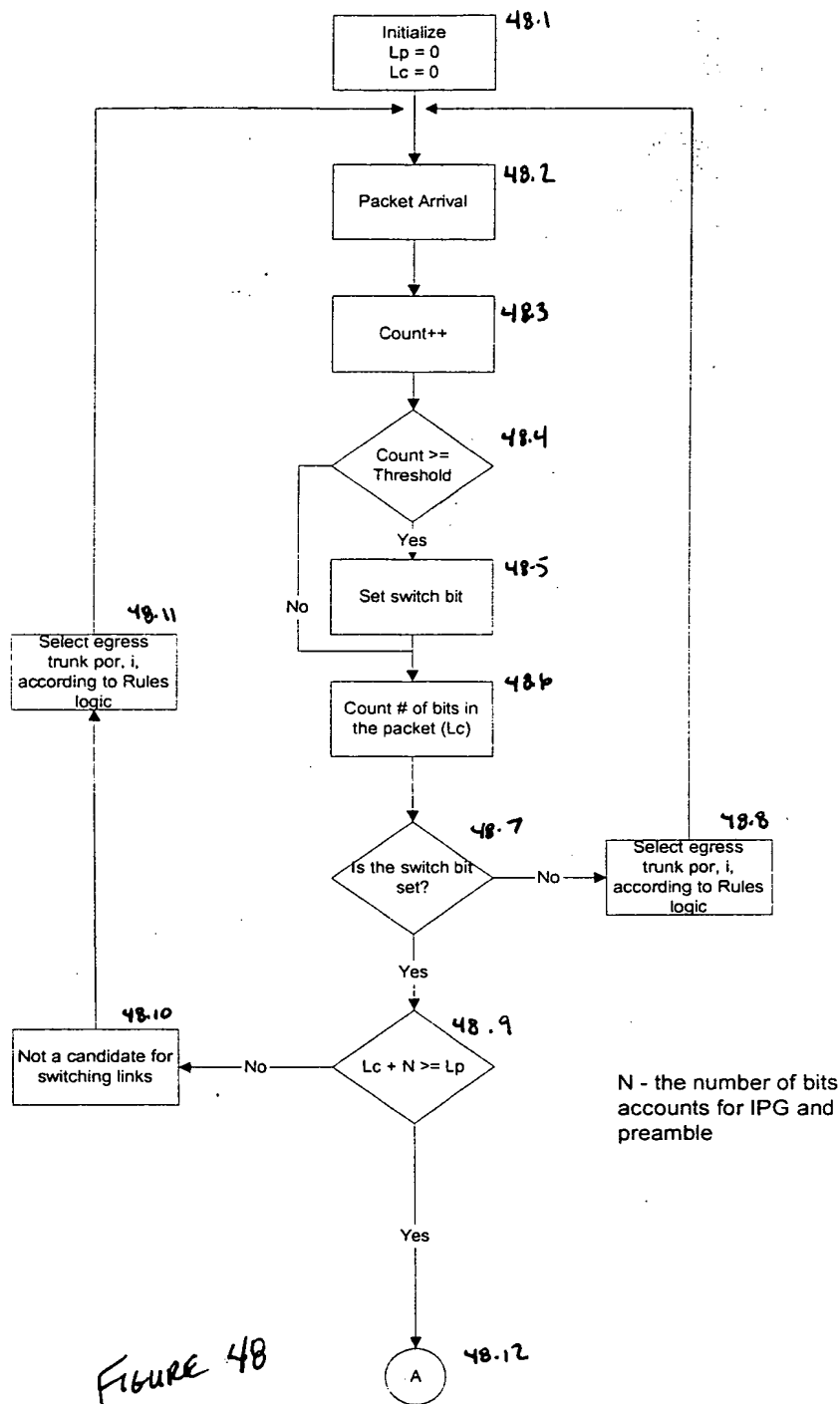


Figure 1 displays 15 small plots, each representing the distribution of the number of non-zero elements in the vector z for a specific value of n (from 1 to 15). The x-axis for each plot is 'Number of non-zero elements' (ranging from 0 to n), and the y-axis is 'Probability' (ranging from 0 to 1). The distributions are unimodal and shift to the right as n increases.

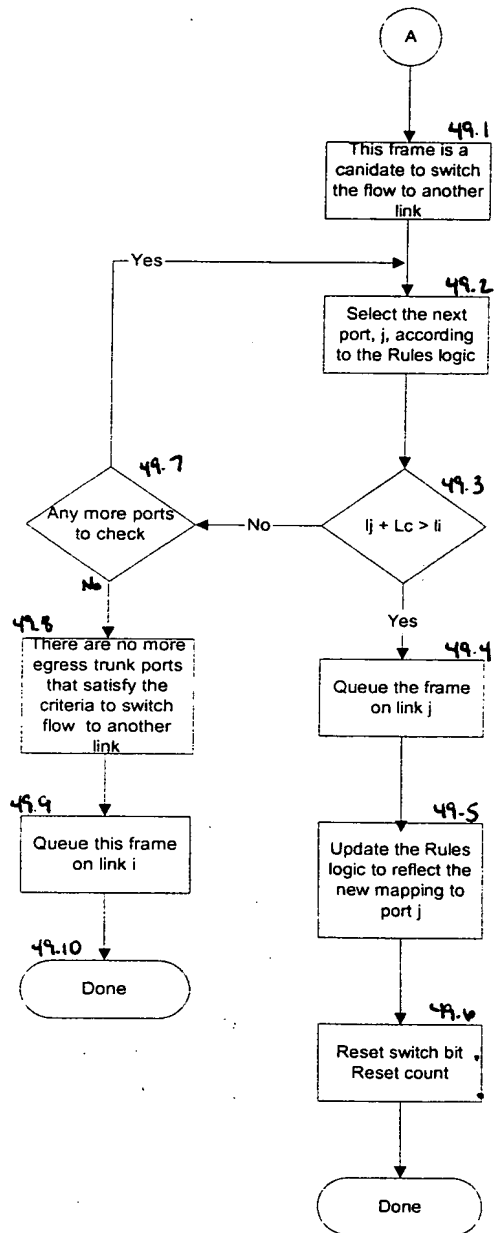


FIGURE 49

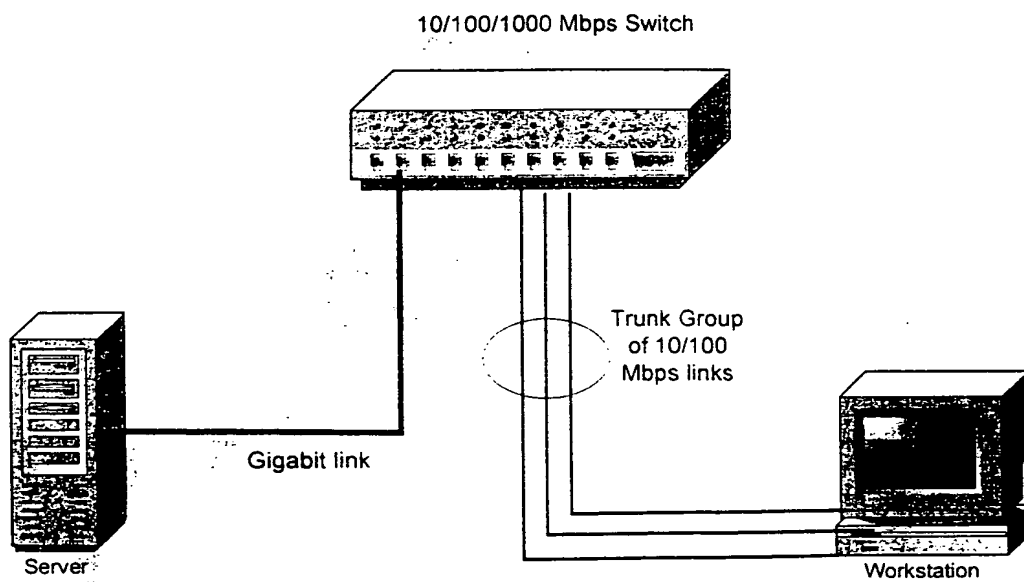


FIGURE 50

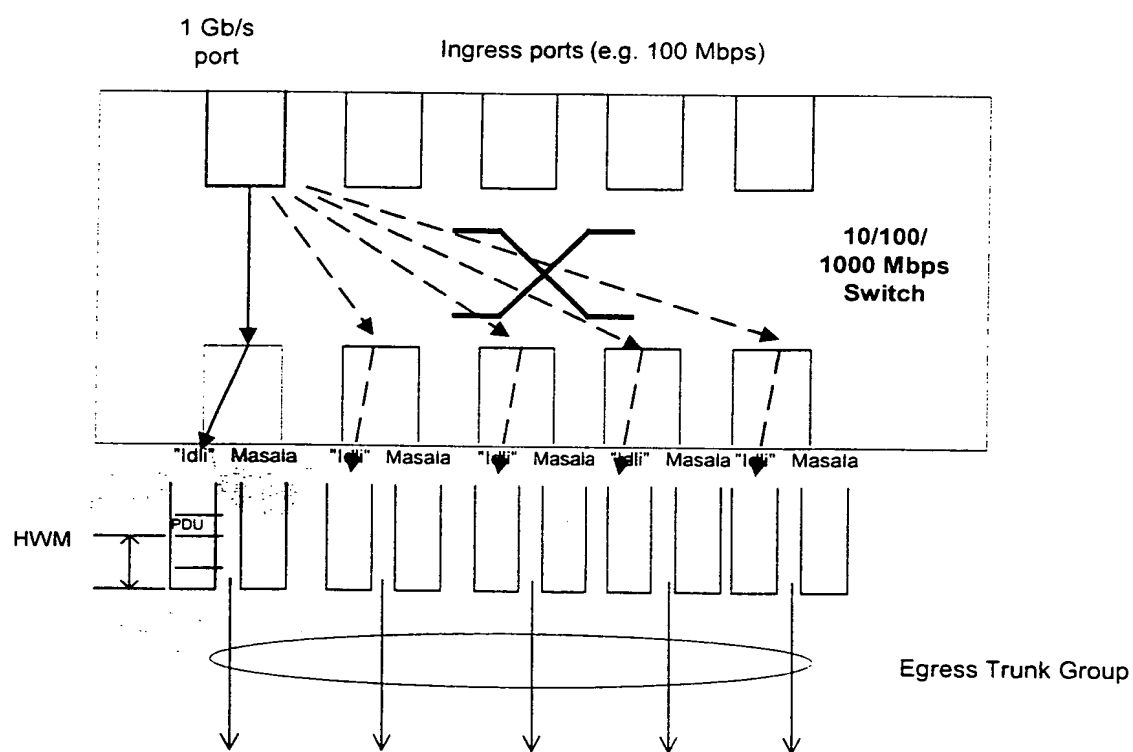


FIGURE 51

09522467 034700

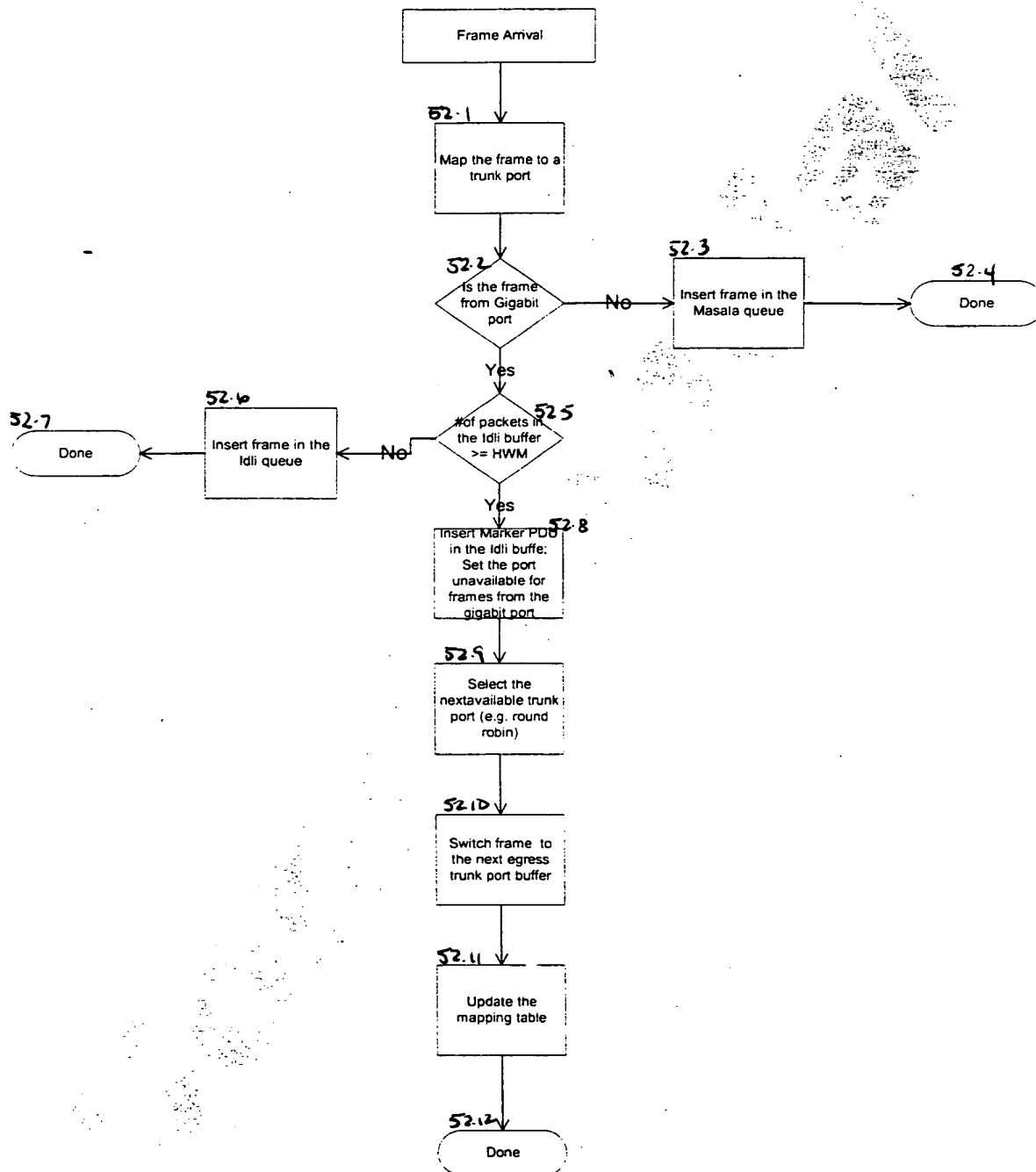


FIGURE 52

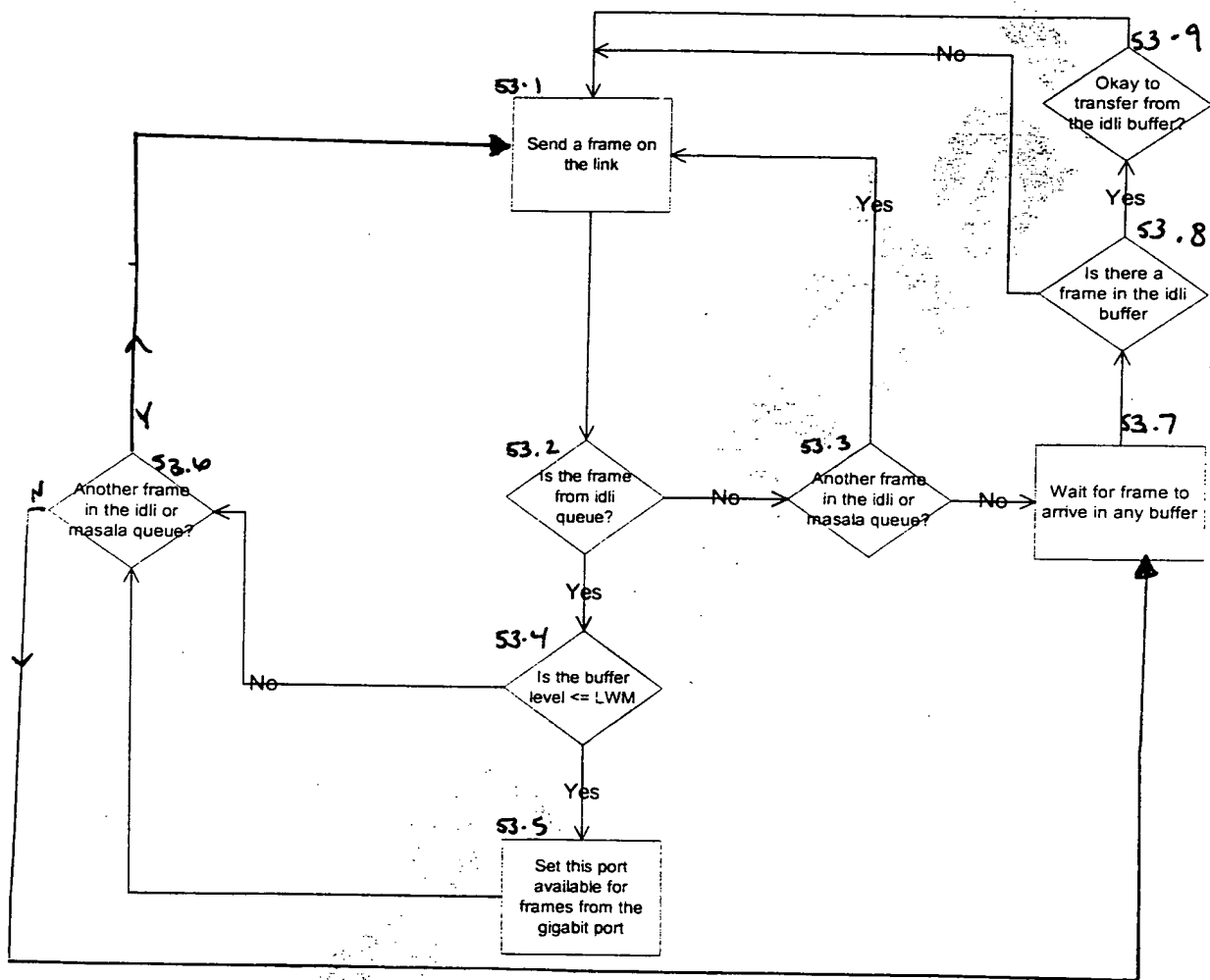


FIGURE 53

2 X 2 X 4 = 16 QUEUES

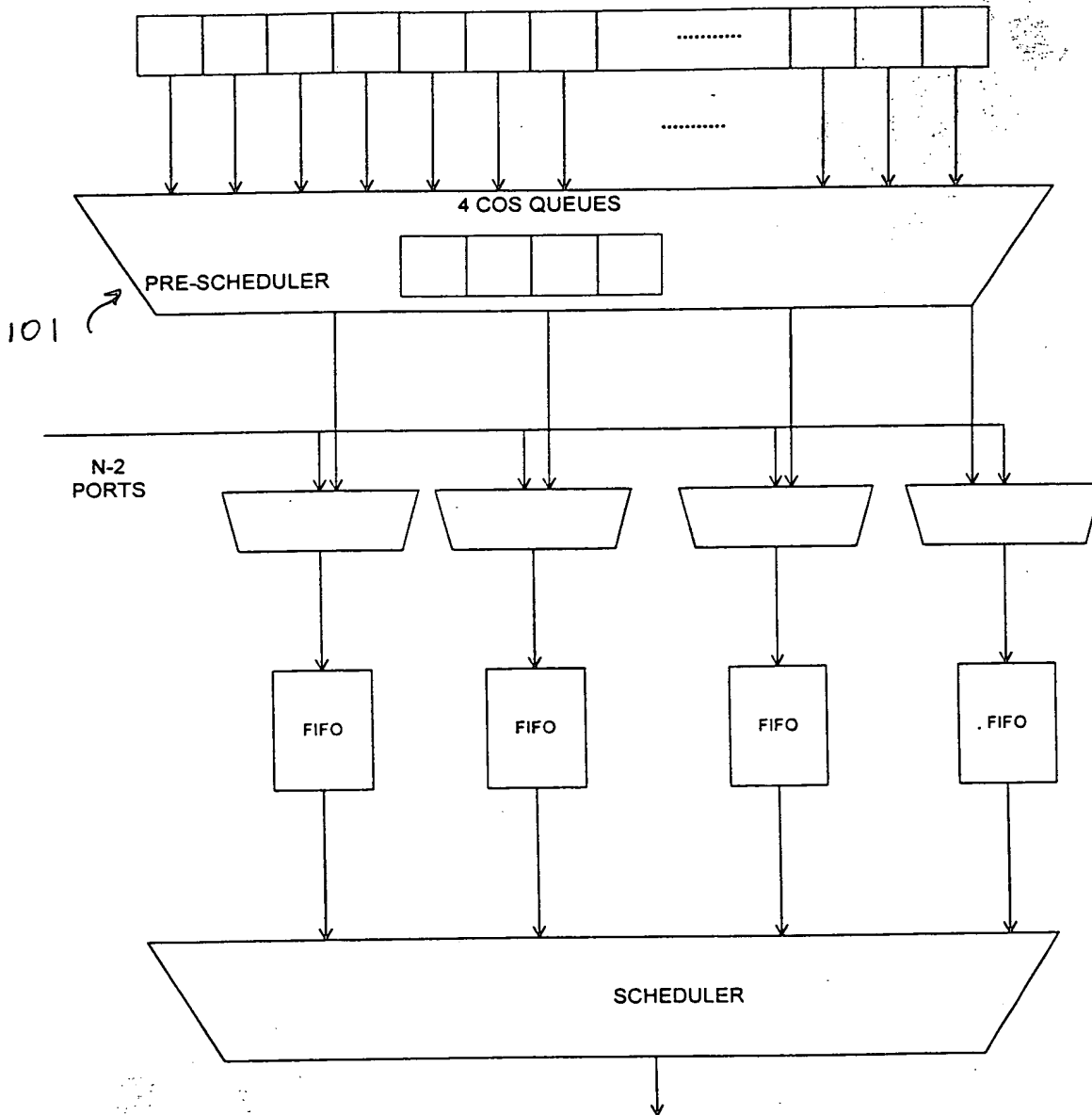


FIGURE 54

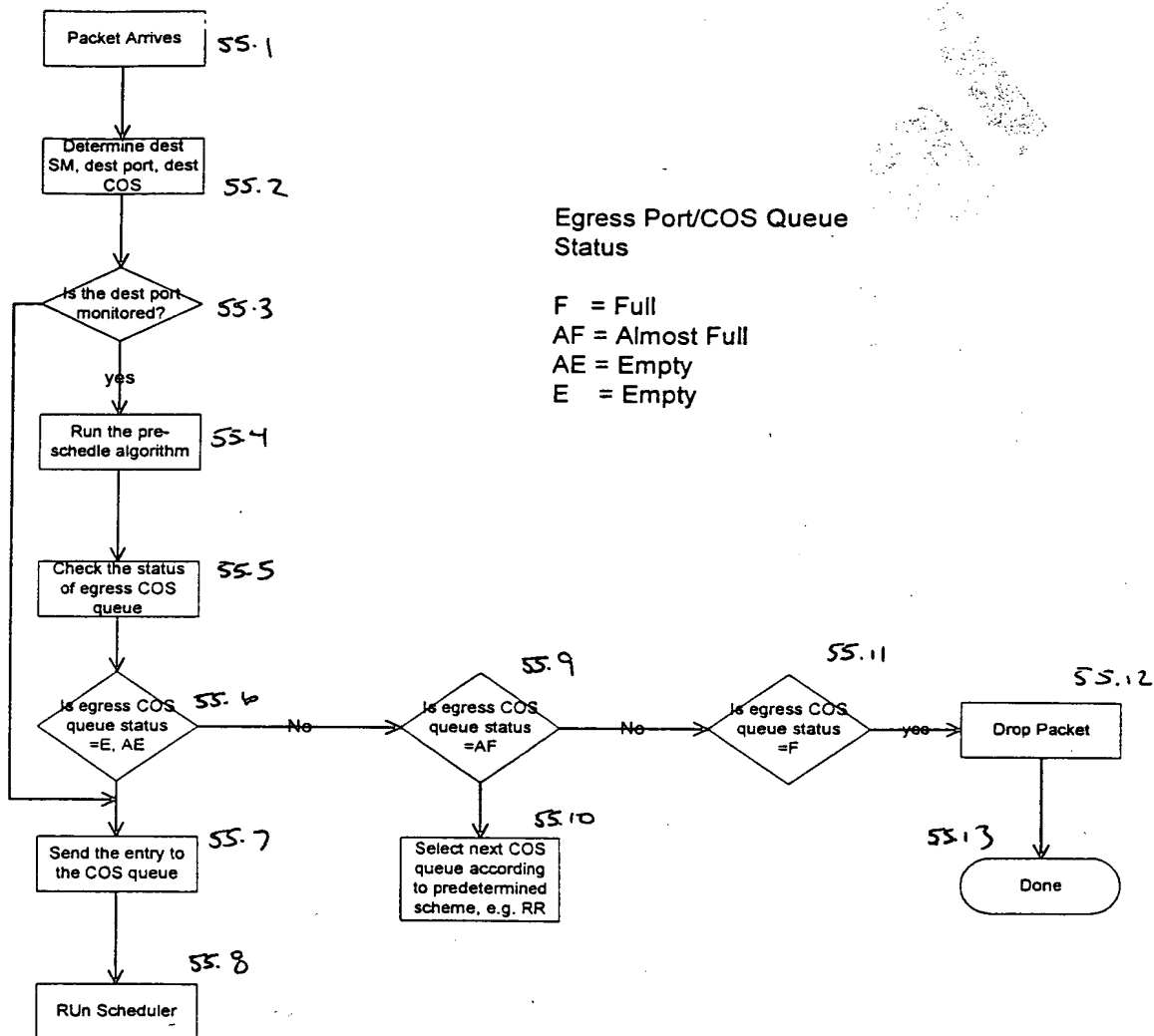


FIGURE 55

Diagram illustrating the operation of a crossbar switch in a packet-switched network. The switch has two ingress ports (left) and two egress ports (right).

Ingress Port 1 (Top): Receives packets A1, A2, and PDU. It sends an "Indication to ingress port to send Marker Response PDU" to egress port 1.

Ingress Port 2 (Bottom): Receives packets A3, A4, and A5. Subsequent frames from the flow are queued to link 2.

Egress Ports (Right): Labeled 1, 2, 3, and 4. Egress port 1 sends out the "Response PDU" after getting an indication from port 5.

FIGURE 5b